

# Care/Com

## Nurse Call System

**EXECUTONE**

Part Number 2314 Issue D  
CH1DEC8932

**TECHNICAL  
MANUAL**

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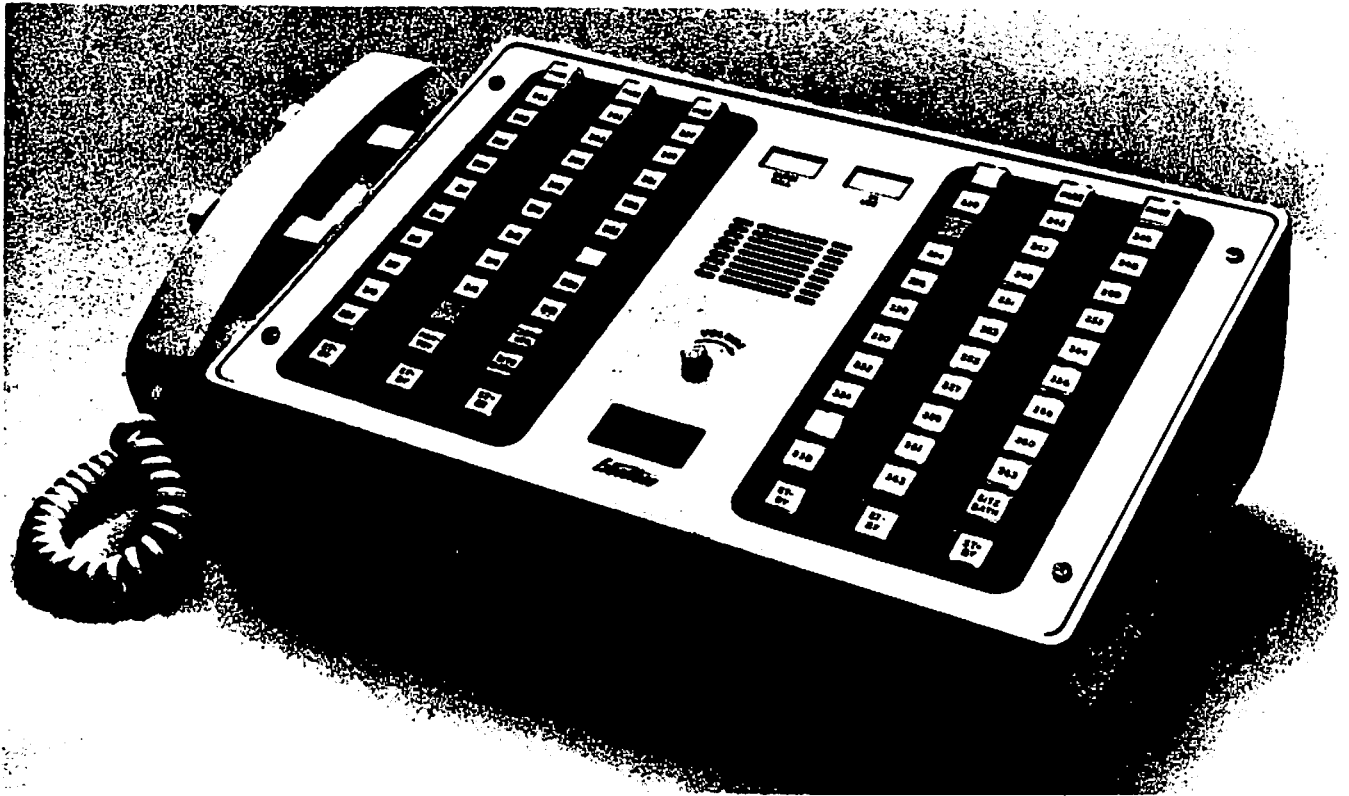
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*Nurse Control Station*

## INTRODUCTION

The Care/Com nurse and patient communication system is a new "no frills" communication system, attractively styled, to be used in all types of health care facilities.

The system combines reliability and economy as a result of its innovative design and simplified production techniques. Care/Com installs quickly, thus cutting costs of installation labor.

Care/Com has all the basic features needed both for a patient to gain immediate access to the nursing staff, and the staff to monitor the patient areas.

Care/Com can be installed in one wing at a time, one floor at a time or throughout the entire facility.

## BASIC SYSTEM CONCEPT

The Basic Care/Com System consists of a nurse control station, patient stations, cord sets, pillow speakers, care-lights for visual alert and toilet and shower stations. All are designed for communication between the patient and the nursing staff at the nurse control station.

Duty and staff stations provide communication between the nurse at the nurse control station and other nursing staff members. Duty stations are placed in hallways, utility areas and diet kitchens for patient call alert. Similar in appearance to the duty station is the staff station. Staff stations can be used in solariums, examining rooms, day rooms and other service or public areas for communication between nursing staff members and the nurse at the control station.



*Care-Light*

#### BASIC SYSTEM CONCEPT (CONT'D.)

The device used by the patient to originate a call is a cord set. The cord set has a standard phone plug which is plugged into the receptacle on the patient station.

There are three types of cord sets available which are; non-locking cord set, a geriatric cord set and a dummy plug with a call origination button.

In place of the simple cord set, a patient control unit (pillow speaker) can be provided. The pillow speaker has an entertainment feature which enables the patient to change radio and TV stations at the touch of a button and control the volume of both.

#### SYSTEM DESCRIPTION

##### NURSE CONTROL STATION

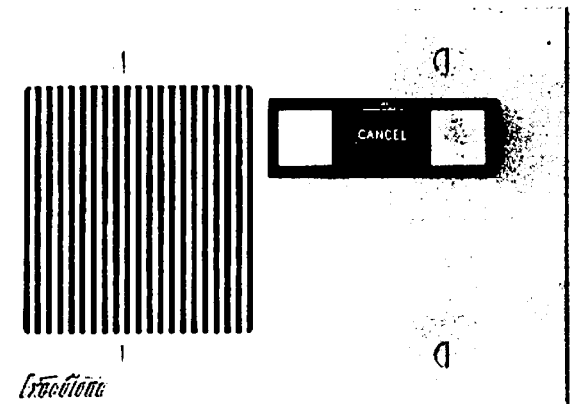
At the heart of the Care/Com System is the nurse control station available in 20, 40 or 60 station capacity models. It features both a handset and a speaker-microphone for communication with the patient. Standard equipment also includes a patient call register lamp on the console to serve as a master call indicator and a volume control for incoming level adjustment.

##### DUTY STATION

The Duty Station is a flush mounted unit with speaker-microphone, combination white staff call button and indicator lamp, one combination red call cancellation button and privacy indicator lamp and one white patient call indicator lamp which illuminates when a patient places a call.

##### STAFF STATION

The Staff Station is also flush mounted and consists of a combination white staff call button and indicator lamp, one combination red call cancellation and privacy indicator lamp and a speaker-microphone for two-way communication.



*Duty or Staff Station*

## SYSTEM DESCRIPTION (CONT'D.)

### PATIENT STATIONS

The simplest patient station is a single bed station which is flush mounted in the wall. It features one combination red call cancellation button and privacy indicator lamp, one white patient call placement indicator lamp, a speaker-microphone and a receptacle which accepts a cord set with a standard phone plug.

Two other patient stations are available. The single bed unit contains one combination red call cancellation button and privacy indicator lamp, one white patient call placement indicator lamp and one multi-prong receptacle.

The dual bed station contains one combination red call cancellation button and privacy indicator lamp, two white patient call placement indicator lamps and two multi-prong receptacles.

The multi-prong receptacles allow for the use of either cord sets or patient control units with their entertainment feature.

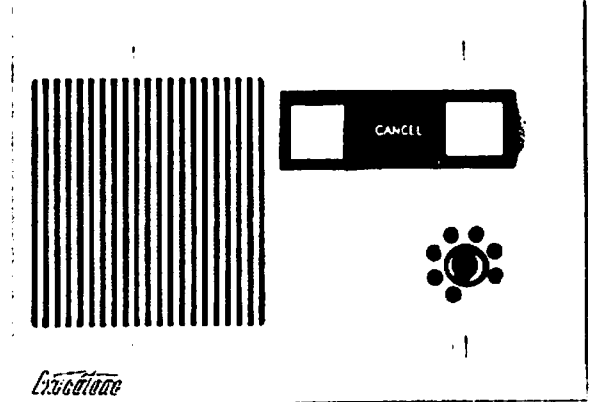


*Single Patient Bedside Station*

## SYSTEM OPERATION AND FEATURES

### PLACEMENT OF NURSE CALL

When a patient depresses the nurse call button on the cord set or pillow speaker the nurse call indicator on his patient station illuminates identifying his bed as the one calling.



*Single Patient Bedside Station  
With Multi-Prong Receptacle*

In the corridor, a care-light illuminates above his door, patient call lights are illuminated on nearby duty stations and a numbered station button on the nurse control station illuminates to identify the room of patient that is calling.

### NURSE CALL ANSWERED

The nurse at the control station hears a short tone signal. If the call remains unanswered, the tone signal will repeat approximately every 12 seconds. The nurse, hearing this, depresses the station button on the control station associated with the calling patient station.

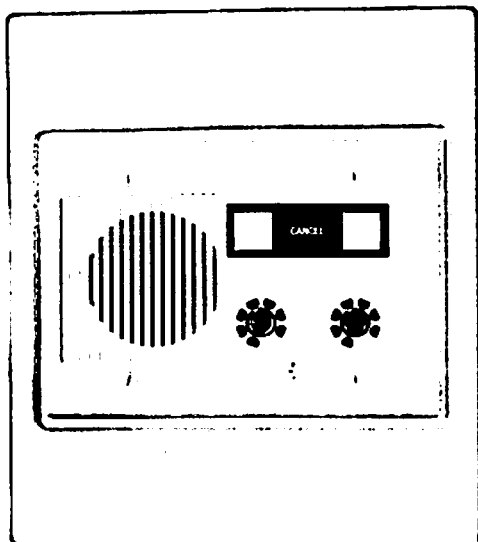
When the button is depressed, all lamp signals throughout the system are extinguished and the red privacy indicator lamp illuminates on the patient station. The illuminated privacy indicator lamp on the patient station alerts the patient that his station is activated for intercom.

### Two-Way Communication

The nurse is now in two-way voice communication with the patient. The nurse controls the conversation by depressing the talk-listen bar on her control station.

### Switching To Confidential Conversation

If the nurse wishes to keep the conversation confidential, she can lift the handset, which switches the conversation automatically from the speaker-microphone to the handset.



*Dual Patient Bedside Station  
Shown With Adapter Faceplate  
For Existing W1 Type Backbox*

## SYSTEM OPERATION AND FEATURES (CONT'D.)

### Replying Through Patient Bedside Station

Meanwhile, the patient, without pushing any buttons and in a normal tone of voice, talks to the nurse by speaking thru the microphone-speaker on the patient station mounted on the wall near the bed. The patient need not turn toward the unit or make any special effort when speaking.

### Resetting The Control Station

After communicating with the patient, the nurse may reset the station button by either depressing the standby button, or another button in the same switch bank on the nurse control station.

### MONITORING A GROUP OF PATIENT STATIONS

Periodically, the nurse can monitor the rooms under her care in an effort to discover problems before they become critical. She depresses the monitor button in one of the switch banks and listens to all of the rooms corresponding to buttons in that switch bank. If no one needs assistance, she then depresses the standby button in that switch bank and goes on to the next monitor button.

In this way she can monitor an entire floor, silently, without disturbing her patients and without leaving her desk. Privacy lamps do not illuminate when the monitor button is depressed for monitoring all rooms associated with a particular bank of buttons.

If, while she is monitoring a group of stations she hears a sound that suggests a patient needs assistance, she can depress the buttons one by one until she reaches and identifies the patient who needs help.

### MONITORING INDIVIDUAL PATIENT STATIONS

The patient is provided the courtesy of visual indication when the control station is being used to monitor individual rooms because the privacy indicator lamp in the station being monitored is illuminated.

### MASTER PATIENT CALL REGISTER LAMP

A nurse call can easily be recognized even if a lamp burns out under one of the patient call buttons on the nurse control station. The nurse would hear the tone signal from the control station and she would see that her master patient call register lamp is illuminated. She would know at this point that there is a patient requesting assistance. She can either use the monitor button, or the individual station buttons to determine which patient needs help. She can also look for an illuminated care-light above the door of the patient's room.

### DUTY STATIONS

The duty station, through its patient call indicator lamp and tone signal can alert the staff in the area it serves, both audibly and visually, that a patient is requesting aid.

When an attendant hears the tone signal and sees the patient call light on the duty station she can either check the care-lights in the hallways to see which is illuminated or call the nurse control station by depressing the nurse call button to see if she can be of assistance.

## SYSTEM OPERATION AND FEATURES (CONT'D.)

### DUTY STATIONS (CONT'D.)

The nurse at the control station, seeing which patient call lamp has been illuminated on the console can dispatch a staff member on duty at the area near the patient's room to the patient's bedside by depressing the appropriate duty station button on the console and verbally alerting the staff member to the situation.

The duty station is also vital during those shifts when the nurse control station may not be closely attended. The duty station will alert the staff to a patient call by its tone and illuminated patient call lamp. The staff member can go to the nurse control station to see exactly which patient station is calling.

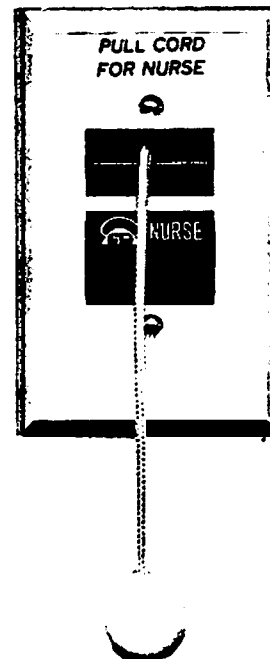
### STAFF STATIONS

The other kind of station that can be used very effectively is the staff station. Staff stations are in use where there is no need for the staff to note patient calls, but there is a need for the staff to have the ability to reach the nurse control station to request aid or information.

If a patient becomes ill in the lobby, the attendant or nurse could request help from the nurse control station by depressing the staff station call button and waiting for the nurse at the control station to respond.



*Emergency Toilet Station*



*Emergency Shower Station*

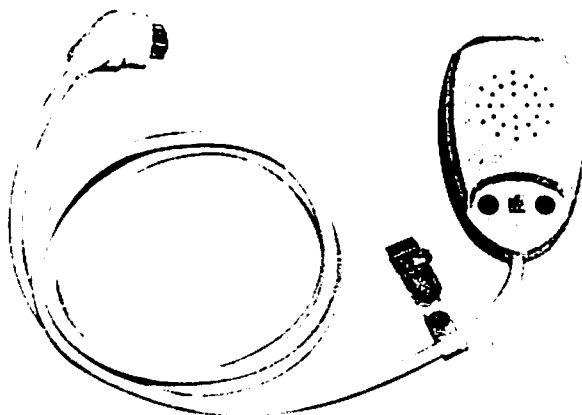
### NON-CANCELLABLE TYPE CALL

If a pillow speaker or cord set is removed, for whatever reason from a patient station, a non-cancellable call is activated with lamps and tones operating every 12 seconds, as with a regular call. But this type of call cannot be cancelled at the nurse control station or by depressing the red cancel button on the patient station. The only way to deactivate the system from the continual registry of this call is by actually going to that particular patient station and re-inserting the patient cord set or pillow speaker into the receptacle on the wall mounted patient station. Then the cancel button becomes operational again.

### EMERGENCY CALLS

Emergency activation of the Care/Com System takes place if the patient call bar at the toilet station is depressed or if the patient pulls the cord attached to the shower station. Indicator lamps begin flashing continuously at the nurse control station, duty stations and at care-light outside the patient's room. Also, a continuous intermittent emergency signal tone begins sounding every second at duty stations and at the nurse control station.





*Patient Control Unit or Pillow Speaker*

### EMERGENCY CALLS (CONT'D.)

When a nurse arrives at the bathroom to assist the patient, she resets the button on the nearby toilet station, thus ending the emergency mode call.

The emergency mode cannot be cancelled at any place other than at the toilet station from which the call was originated. This insures immediate attention to what could be a critical situation. Also, the emergency mode separates standard patient requests from those which demand instant action.

## INSTALLATION FEATURES AND BASIC EQUIPMENT

### MAIN DISTRIBUTION CABINET

The Main Distribution Cabinet contains the standard push-on type or connectorized terminal blocks which are used to terminate and interconnect the system's wiring. Also, housed in the junction cabinet is the emergency flasher and the power supply.

### FLASHER UNIT AND POWER SUPPLY

The flasher unit performs the timing and "interrupter" functions for the entire Care/Com System. There is one power supply for the entire system and this powers the control station, patient stations and care-lights.

### INTERMEDIATE JUNCTION UNITS

Also available for larger hospitals or nursing homes are intermediate junction units. These are for the purpose of terminating wires, and as a junction point for all station wiring in a given area. Then these intermediate junction points are connected by multiple-wire cable to the Main Distribution Cabinet.

### STANDARD CONNECTORIZED CABLES USED

The control station is interconnected to the whole system by means of B25A-DE or A25B-SE type cables and is provided with standard 50-pin connectors. One common run and one cable is used for every 20 station buttons. One common run and three cables are used for the largest control station which handles up to 60 stations. These cables can terminate in connectorized terminal blocks in the Main Distribution Cabinet.

### PLUG-IN WALL STATIONS

The patient, duty and staff stations are plugged into a pre-wired edge connector for ease of installation and maintenance. The pre-wired edge connector can be installed in advance or at the time the stations are to be installed.

### WALL STATIONS DESIGNED FOR STANDARD BACKBOXES

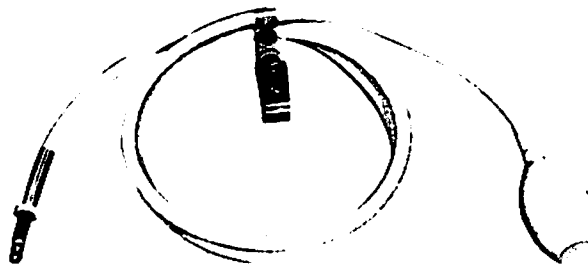
Stations are mounted in 2 and 3 gang standard electrical backboxes 2-3/4" deep. The stations can be removed easily for troubleshooting and replacement.

### ADAPTER KIT FOR EXISTING W1 TYPE BACKBOX

An adapter kit is available for the installation of a W43 type station unit into an existing W1 type backbox. The kit consists of a plastic adapter faceplate, a metal subplate to provide a sturdy support for the station unit to be installed and the required hardware.

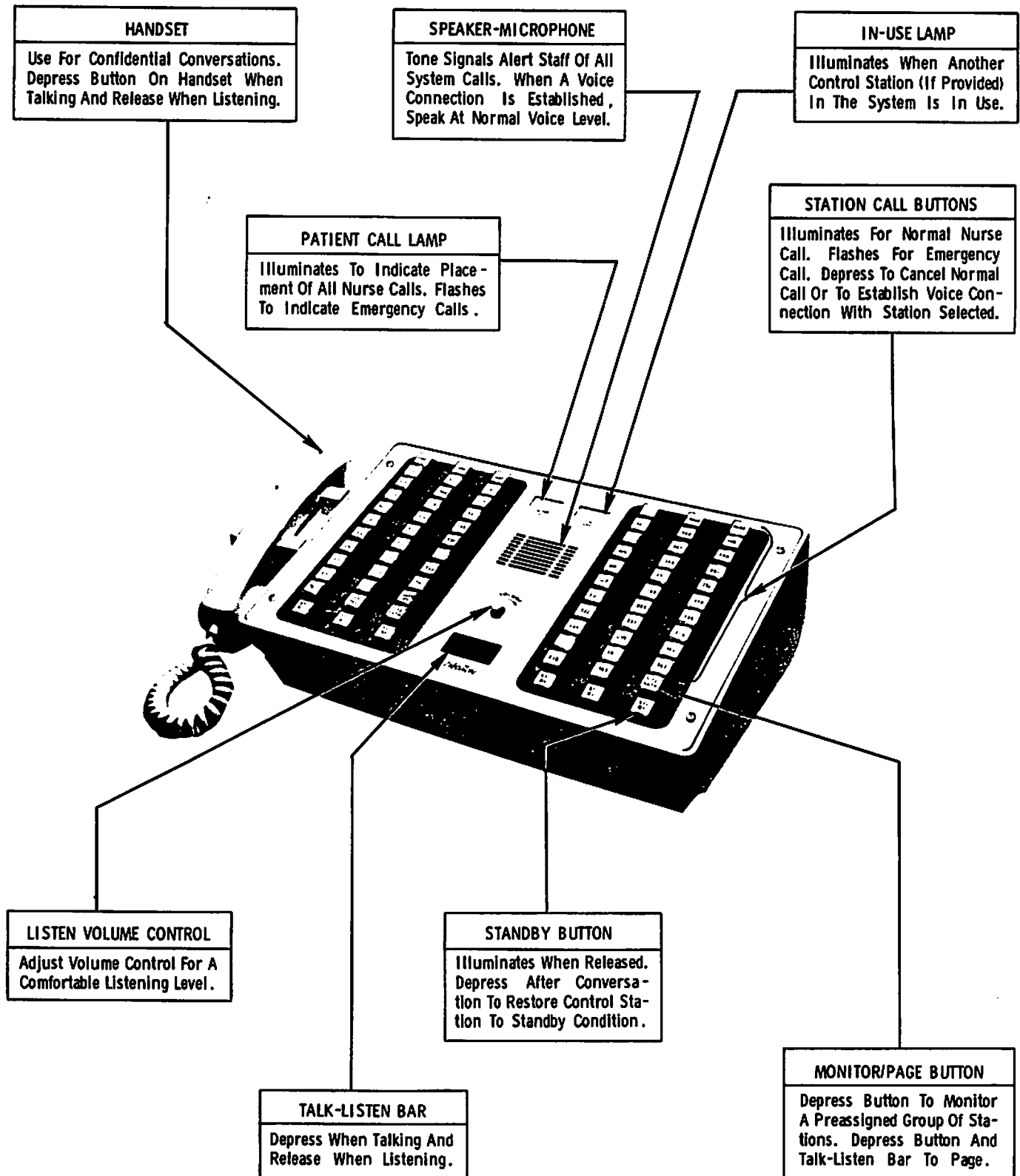
### SAFETY FEATURES

The station's faceplates are constructed of off-white, high impact plastic, which is easily cleaned and fingerprint resistant. Captive nylon screws are used on all stations to prevent electrical leakage, as well as conform to life-safety codes.

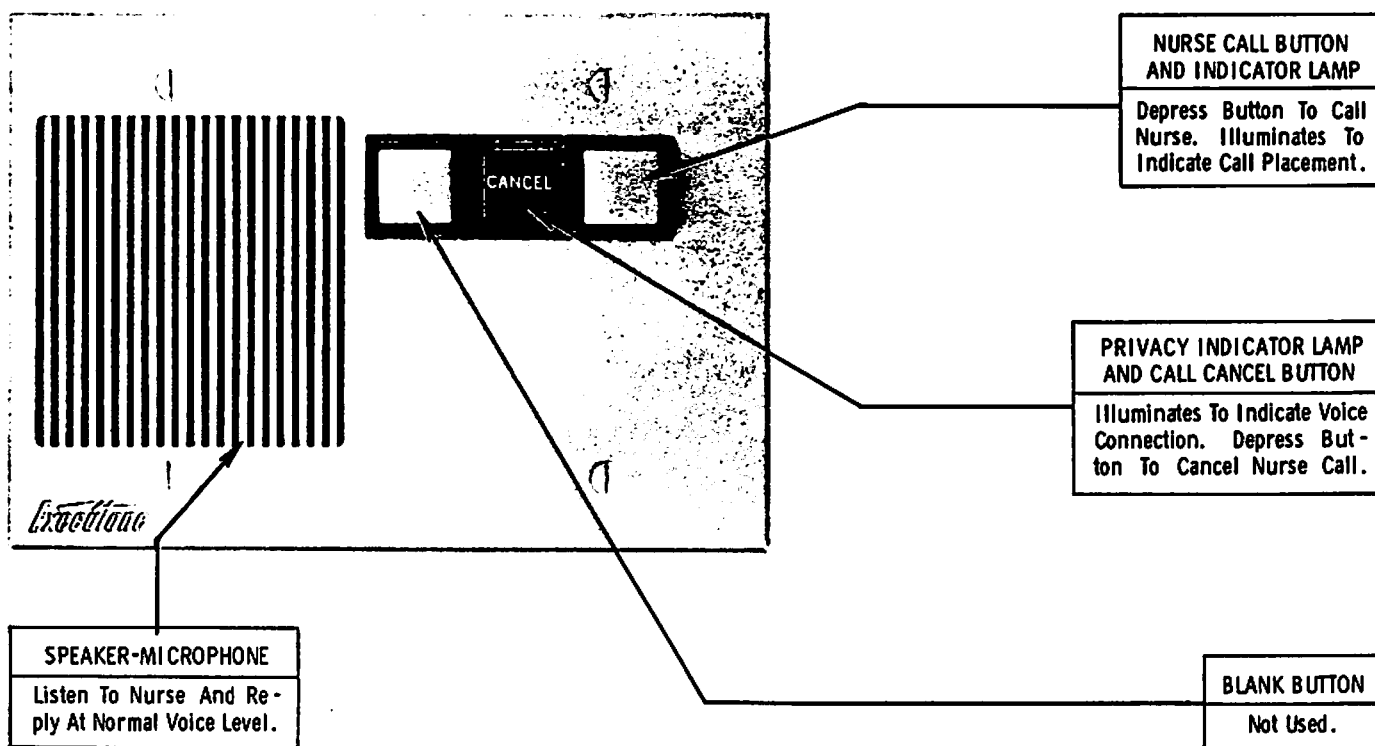


*Typical Cord Set*

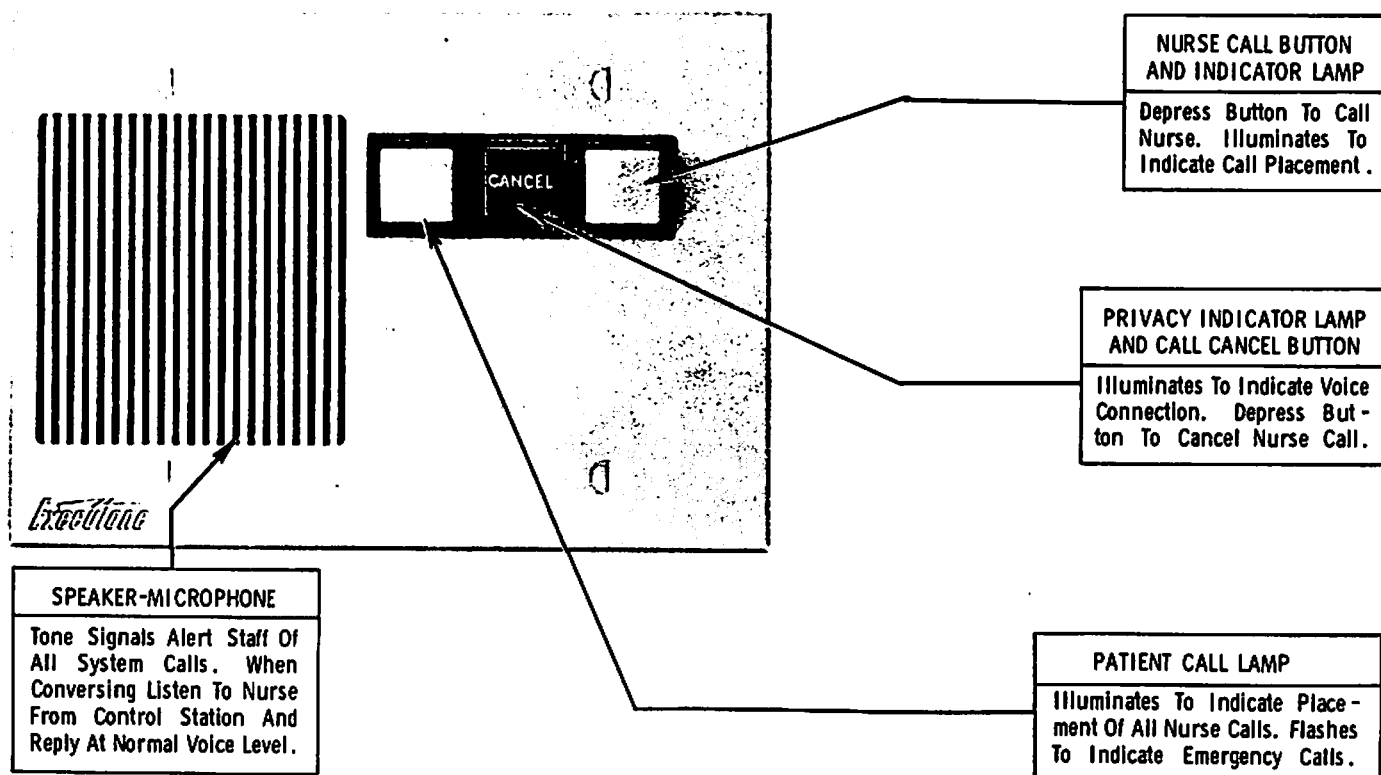
## CONTROL STATION



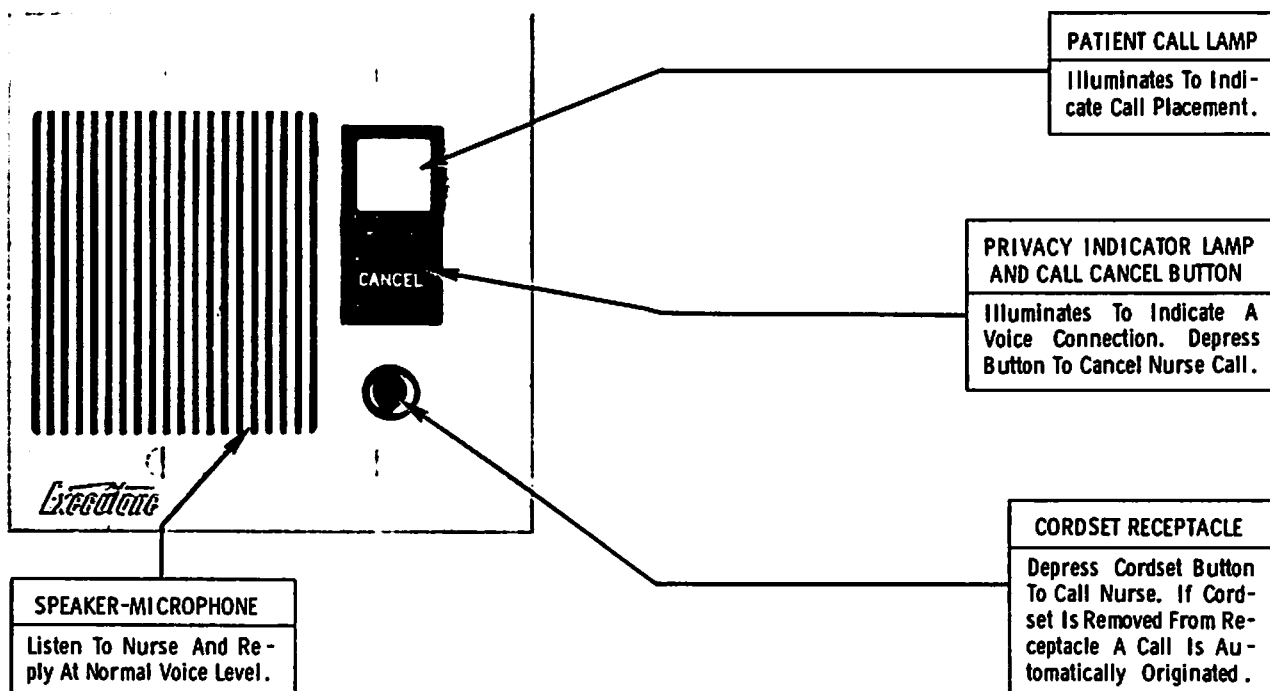
# STAFF STATION



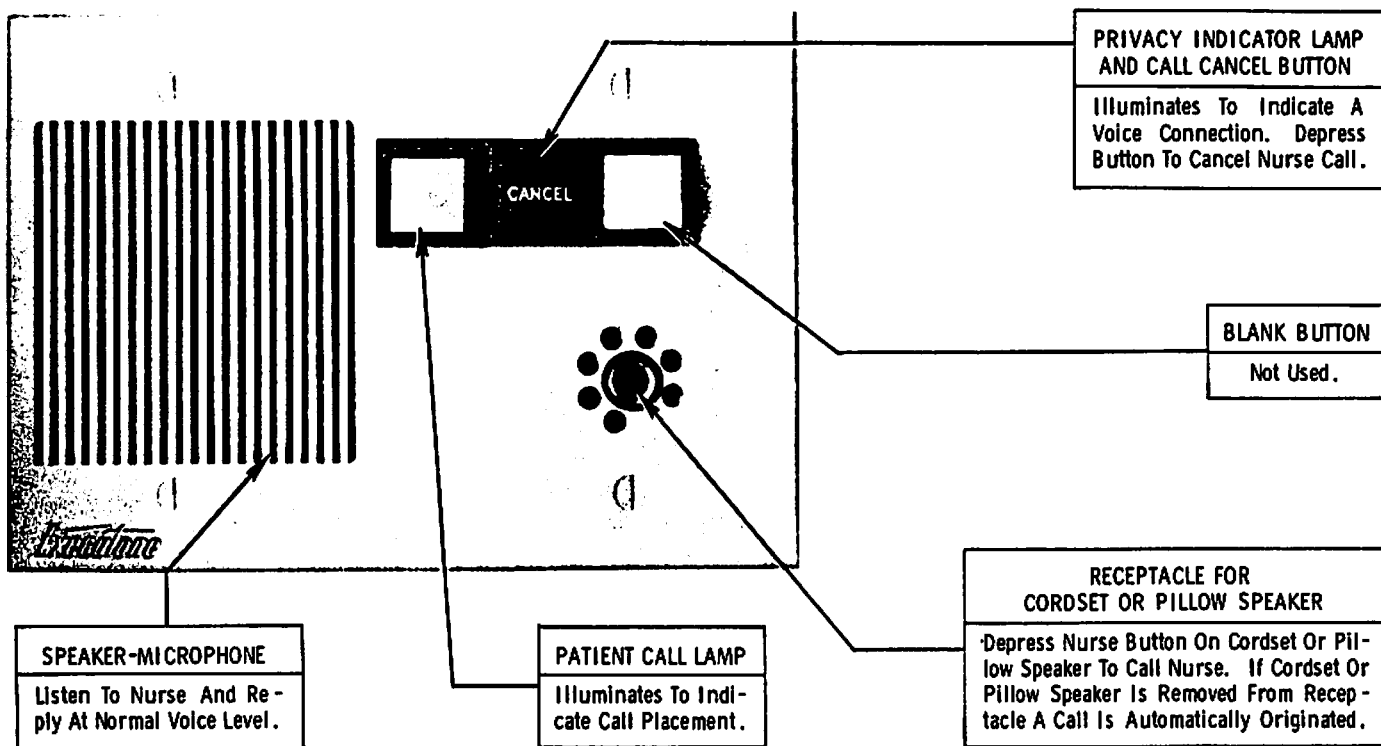
# DUTY STATION



PATIENT STATION USED WITH CORDSET



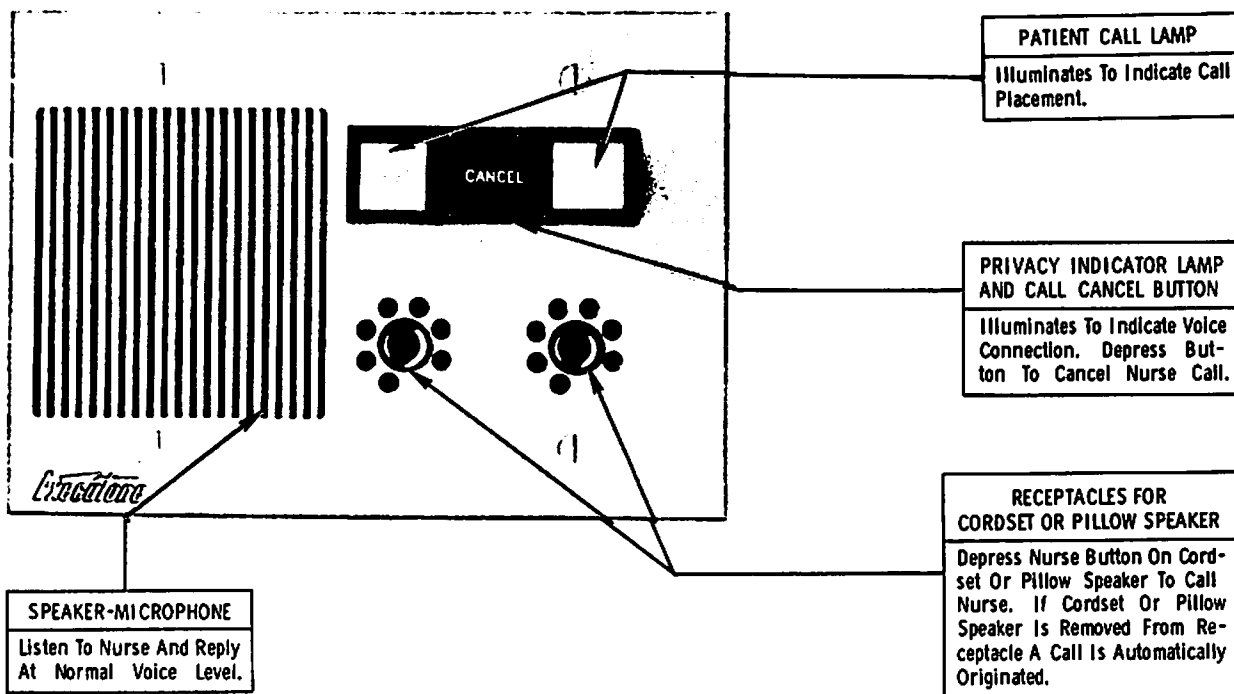
PATIENT STATION USED WITH CORDSET OR PILLOW SPEAKER



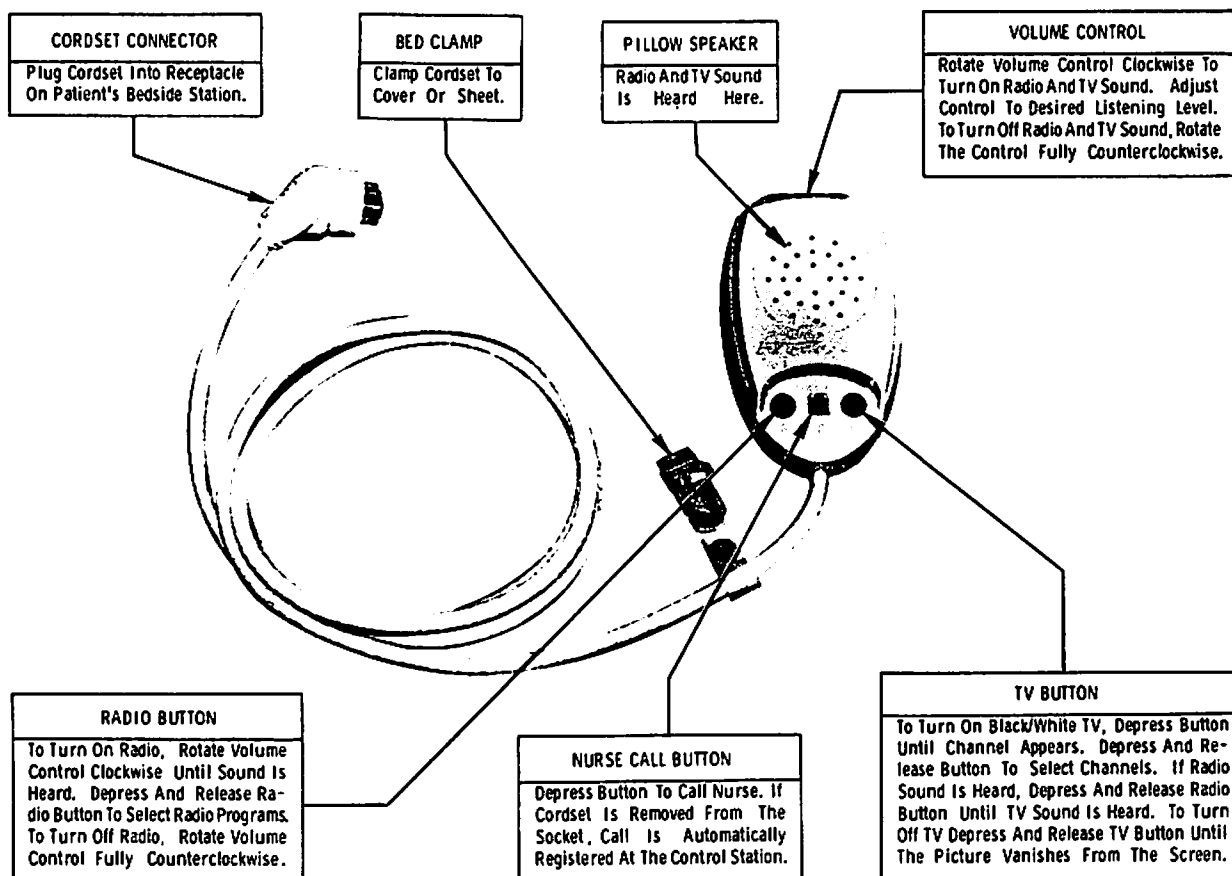
**Executone inc.**

29-10 Thomson Ave., Long Island City, New York 11101

# DUAL PATIENT STATION USED WITH CORDSET OR PILLOW SPEAKER



## C360 TYPE PILLOW SPEAKER



**Executone inc.** 29-10 Thomson Ave., Long Island City, New York 11101

## HOW TO USE THIS GUIDE

The information contained in the Guide to Specification Writing is furnished to help you prepare a construction specification for an Executone Care/Com<sup>TM</sup> System. Use this format as a guide when writing a specification.

The Guide to Specification Writing includes the "System Description" and "System Operation and Functions" sections which are to be used as a guide to compile your particular specification.

Specifications should be prepared in the following manner:

1. GENERAL REQUIREMENTS - Include all the paragraphs in the General Requirements section for the system being specified.
2. SYSTEM DESCRIPTION - Carefully read the System Description. Include all material which is applicable to the system that you are specifying.

Delete any part of the description which is not incorporated as part of the complete system being specified. Add any additional information pertinent to the particular job being specified.

3. SYSTEM OPERATION AND FUNCTIONS - Carefully read the System Operation and Functions. Include all paragraphs which are applicable to the particular job being specified. Delete any parts which are not incorporated as part of the complete system being specified. Add any additional information pertinent to the particular job being specified.
4. EQUIPMENT SPECIFICATIONS - A section containing individual Technical Specification sheets pertaining to each model used in the system should be added after the section on System Operation and Functions.

## GENERAL REQUIREMENTS

### CONTRACTOR

The contractor shall furnish all equipment, accessories and material complete in strict accordance with specifications and applicable drawings as required for an electronic intercommunication system. All material and/or equipment necessary for proper operation of the system not specified or described herein shall be deemed part of the specifications.

design and material as well as exact operating features required.

All items of equipment including wire and cable shall be designed by the manufacturer to operate as a complete system and shall be accompanied by the manufacturer's complete service notes and drawings detailing all interconnections.

### STANDARD PRODUCTS

The equipment furnished under this specification shall be the standard product of one manufacturer and shall be equal in every way to that manufactured by Executone, Inc. Catalog and model numbers are intended to indicate type and quality of

### QUALIFICATIONS

Any system proposed as an equal to that herein specified shall be proven to be such by the Contractor who shall with his bid attach the manufacturer's name and model numbers of such substitute equipment and material together with three copies of

## GENERAL REQUIREMENTS (CONT'D.)

### QUALIFICATIONS (CONT'D.)

working and shop drawings. Contractor shall obtain Architect's approval in writing prior to substitution of materials as specified. Each major component shall bear the manufacturer's name and catalog number.

### SERVICE FACILITIES

Contractor shall make available to the purchaser a local Service Department of a duly authorized distributor of the equipment manufacturer which shall stock the manufacturer's standard parts. On-the-premises maintenance shall be provided during normal working hours at no cost to the purchaser for a period of twelve (12) months from date of completion of installation unless damage is caused by misuse, abuse or accident. On-the-premises service furnished at other than normal working hours shall also be available and shall be charged for

by the manufacturer's distributor at current labor rates.

### TRAINING OF PERSONNEL

Nursing staff of the hospital, as well as maintenance staff shall be thoroughly instructed in the use of the system by authorized distributor personnel. Such service shall be provided in conjunction with the system equipment.

### MAINTENANCE STAFF SCHOOL

Every year, the Contractor shall conduct a series of Technical Training Schools on both the East and West coasts where factory trained experts shall acquaint the customer's own technicians in basic care and maintenance procedures. These schools shall be effective in achieving lower service costs and maximum customer satisfaction.

## SYSTEM DESCRIPTION

The complete Care/Com<sup>TM</sup> System shall consist of Patient Bedside Stations with suitable cordsets and/or Pillow Speakers; toilet and shower emergency call stations; Control Stations, Power Supply, Duty Sta-

tions, Staff Stations, corridor Care-Lights, zone lights and any other accessory required to provide the specified operating system and associated control devices for entertainment and environment system.

## SYSTEM OPERATION AND FUNCTIONS

### PATIENT'S BEDSIDE STATION

The Patient's Bedside Station shall contain the following facilities: a combination red privacy indicator lamp and button to cancel calls; a white call placement indicator lamp for each patient; a speaker-microphone; and one receptacle for con-

ventional cordset. Single and Dual Patient's Bedside Stations shall be available with a multi-purpose receptacle per each patient to accept single-prong conventional cord-set and multi-prong Pillow Speaker.

SYSTEM OPERATION AND FUNCTIONS (CONT'D.)

PATIENT'S BEDSIDE STATION (CONT'D.)

1. Call Origination From Patient's Bedside: Patient momentarily depresses the bedside call button. This one operation shall automatically perform the following functions:
  - a. Illuminate the white call placement indicator lamp on Patient's Station.
  - b. Illuminate the Care-Light in corridor.
  - c. Sound a tone signal at Control Station.
  - d. Illuminate call button at Control Station identifying origin of call.
  - e. Sound a tone signal and illuminate patient call lamp on each Duty Station.
  - f. Illuminate zone lights (if provided).
2. Patient's Remote Operation During a Conversation: The patient shall be able to converse with the Control Station from the bedside without moving in bed; without directing voice towards Patient's Bedside Station; without the use of any controls and without raising voice above normal level.
3. Freedom From Eavesdropping On Patient Through Privacy Indicator: The Patient's Bedside Station shall have a conspicuous red indicator lamp which shall illuminate when the nurse originates a patient call to converse with or monitor an individual patient station.
4. Call Origination Indicator: The Patient's Bedside Station shall have a white call placement indicator lamp which shall automatically illuminate when the patient originates a call to the nurse. The indicator lamp shall remain illuminated until the call is answered.
5. Automatic Call Circuit: In the event a cordset, or Pillow Speaker is inadvertently pulled out of the receptacle on any Patient Station, the circuitry provided in the system shall automatically register a patient call at the Control Station which shall only be cancellable at the bedside station.
6. Cordsets: The following cordsets shall be available:
  - a. Non-locking type with momentary action; hand operated button for normal use.
  - b. Multi-purpose bulb type; for general use and oxygen tents in patient's room.
  - c. Low-pressure geriatric type; hand or body operated for normal use.



## SYSTEM OPERATION AND FUNCTIONS (CONT'D.)

### NURSE CONTROL STATION

The Control Station shall be provided in a desk or wall (flush) model with call origination and acceptance to up to 20, 40 or 60 stations. The Control Station shall contain the following facilities: incoming volume control; Talk-Listen bar; standby buttons; handset; and page-monitor button for each selector bank enabling the nurse to monitor or call a group of stations simultaneously.

1. Call Acceptance From Patient: When a patient calls, a tone signal shall sound and the patient call indicator lamp and the patient's call button shall illuminate on the Control Station. The nurse depresses that patient's call button, automatically releasing any other call button in that group previously depressed, preventing the possibility of calling two stations simultaneously. This one operation shall accomplish the following:

- a. The patient call indicator lamp shall be extinguished (except if other patients are calling) and the tone signal at the Control Station shall be cut off.
- b. The patient call indicator lamp on all Duty Stations shall be extinguished except if other patients are calling.
- c. If the call is not immediately answered, a reminder tone signal shall sound at predetermined intervals on Control Station and Duty Stations to remind nursing personnel to answer the call.
- d. Calls received from toilet or shower area shall cause a tone signal to sound repeatedly and the patient call indicator lamp and patient's call button shall flash. When the associated call button is depressed, the tone signal shall be cut off until

the station is returned to standby and all lights shall continue to flash until the call is cancelled at the toilet or shower area.

2. Call Acceptance During Conversation With Patient: Calls received at the Control Station during a conversation with a patient shall be registered as follows: A call from another patient shall illuminate the patient's call button and the patient call indicator lamp.

3. Call Origination From Nurse To Patient Station: Nurse depresses selector call button corresponding to patient she wishes to call. Standby button is illuminated and line is instantly open for two-way communication with patient. Nurse may use microphone-speaker or handset. At the conclusion of the conversation, the nurse depresses the standby button cancelling the call and extinguishing the standby button reminder lamp.

4. Simultaneous Calls At Control Station: Any number of calls may be registered at the Control Station simultaneously. Each call button shall remain illuminated until the calls are answered. As each call is answered, all visual and audible signals corresponding to that call shall be automatically cancelled according to the procedures previously outlined. The tone signal shall not sound at the Control Station for calls registered during a conversation, thereby preventing audible interruption.

5. Group Monitoring And Calling Facilities: The Control Station shall have facilities for monitoring or calling groups of patients simultaneously. The circuits and equipment shall be so designed to permit the nurse to hear the slightest whisper or movement of patients.

## SYSTEM OPERATION AND FUNCTIONS (CONT'D.)

NURSE CONTROL STATION (CONT'D.)

6. Confidential Conversation: The Control Station shall be provided with a handset for confidential conversations. The use of the handset shall not be mandatory and shall be used at the discretion of the nurse.
7. Standby Reminder Lamp: When the standby button is released a standby reminder lamp shall illuminate the standby button as a reminder for the nurse to depress the standby button upon conclusion of the conversation.
8. Call Acceptance From Corridor: Nurse observing illuminated corridor Care-Light over patient's door shall enter the patient's room, render services and depress the cancel button on the Patient's Bedside Station. This operation shall automatically and simultaneously extinguish all illuminated signals in the system corresponding to that call, thus eliminating duplicate call acceptance by other nursing personnel.
9. Incoming and Outgoing Volume Controls: Separate incoming and outgoing volume controls shall be provided for intercom volume regulation. The incoming volume control shall be adjustable by the nurse at the Control Station. The outgoing volume control shall regulate the volume to the patient's room. The outgoing volume control shall be incorporated inside the Control Station and shall be set at the time of installation.
1. Patient Call Indicator Lamp And Tone Signal: The duty station, through its patient call indicator lamp and tone signal shall alert the staff in the area it serves, both audibly and visually, that a patient is requesting aid. When an attendant hears the tone signal and sees the patient call light on the duty station she shall either check the Care-Lights in the hallways to see which is illuminated or shall call the nurse control station by depressing the nurse call button to see if she can be of assistance.
2. Call Origination To The Control Station: The nurse at the Duty Station shall originate call to the Control Station by depressing the nurse call button. When this is done, the call button for the Duty Station shall illuminate at the Control Station. When the call is answered, the red privacy indicator lamp at the Duty Station shall illuminate and the nurse may carry on a two-way conversation, remotely, through the speaker-microphone. At the conclusion of the conversation, the nurse at the Control Station shall cancel the call, extinguishing the red privacy indicator lamp.
3. Call Acceptance From A Control Station: Call from Control Station shall illuminate the red privacy indicator lamp and the nurse at the Duty Station shall reply remotely.

DUTY STATION

The Duty Station shall consist of the following: an illuminating nurse call button; a combination illuminating privacy indicator lamp and cancel button and a patient call indicator lamp and a speaker-microphone.

STAFF STATION

The Staff Station shall contain facilities for staff members to originate calls to the Control Station. The Staff Station shall consist of the following: an illuminating nurse call button; a combination illuminating privacy indicator lamp and cancel button and a speaker-microphone.

1. Call Origination To The Control Station: The nurse at the Staff Station shall originate call to the Control Station by

## SYSTEM OPERATION AND FUNCTIONS (CONT'D.)

STAFF STATION (CONT'D.)

depressing the nurse call button. When this is done, the call button for the Staff Station shall illuminate at the Control Station. When the call is answered, the red privacy indicator lamp at the Staff Station shall illuminate and the nurse may carry on a two-way conversation, remotely, through the speaker-microphone. At the conclusion of the conversation, the nurse at the Control Station shall cancel the call, extinguishing the red privacy indicator lamp.

2. Call Acceptance From A Control Station: Call from Control Station shall illuminate the red privacy indicator lamp and

the nurse at the Duty Station shall reply remotely.

TOILET BUTTON

The toilet button shall consist of a red combination call and reset button which, when momentarily depressed, shall automatically originate an emergency call. The lamp on the button shall begin to flash, indicating that the call has been registered. All signals shall continue to flash and all tone signals shall continue to sound repeatedly until the call has been answered and cancelled. Calls from the toilet station shall only be manually cancelled in the lavatory. These calls shall not be cancellable from any other location.

## EQUIPMENT SPECIFICATION

CONTROL STATION

*(Note to specification writer: Specify model of control station based on the system capacity. One B25A-DE or A25B-SE type connectorized cable is required per each 20 station capacity.)*

Model CC720AHD - Desk Type Nurse Control Station with capacity for up to 20 stations, (refer to Technical Specification No. 30,515).

Model CC740AHD - Desk Type Nurse Control Station with capacity for up to 40 stations, (refer to Technical Specification No. 30,516).

Model CC760AHD - Desk Type Nurse Control Station with capacity for up to 60 stations, (refer to Technical Specification No. 30,517).

Model B25A-DE-25 (-50 or -100) Double-Ended Connectorized Cable available in 25', 50' and 100' lengths.

Model A25B-SE-25 (-50, -100, -150 or -200) Single-Ended Connectorized Cable available in 25', 50', 100', 150' or 200' lengths.

PATIENT'S BEDSIDE STATIONS

*(Note to specification writer: Include only the models required.)*

Model CC41ILS/W42 - Single Patient's Bedside Station for single-prong cordsets, (refer to Technical Specifications No. 30,519).

Model CC41ILS/W43 - Single Patient's Bedside Station for single-prong cordsets and pillow speaker, (refer to Technical Specification No. 30,520).

Model CC42IILS/W43 - Dual Patient's Bedside Station for single-prong cordsets and pillow speaker, (refer to Technical Specification No. 30,521).

CALL ORIGATION CORDSETS AND PILLOW SPEAKER

*(Note to specification writer: Include only the models required.)*

Model M18 - Non-Locking Cordset, (refer to Technical Specification No. 1,732).

Model M88 - Geriatric Cordset, (refer to Technical Specification No. 1,735).

EQUIPMENT SPECIFICATION (CONT'D.)

CALL ORIGATION CORDSETS AND PILLOW  
SPEAKER (CONT'D.)

Model M282 - Call Origination Button,  
(refer to Technical Specification  
No. 5,255).

Model M518X - Multi-Purpose Cordset for  
general, oxygen tent, geriatric applica-  
tions, etc., (refer to Technical Speci-  
fication No. 30,258).

Model C360-6' - Pillow Speaker with 6 ft.  
cord, (refer to Technical Specification  
No. 1,781).

Model C360-15' - Pillow Speaker with 15 ft.  
cord, (refer to Technical Specification  
No. 1,781).

CORRIDOR CARE/LIGHT

*(Note to specification writer: Specify  
one Corridor Care-Light per each pa-  
tient's room and other locations as re-  
quired.)*

Model CC31S/W42 - Corridor Care-Light,  
(refer to Technical Specification  
No. 30,524).

EMERGENCY TOILET AND SHOWER STATIONS

Model HAV19IS/W41 (GR4) - Toilet Call But-  
ton, (refer to Technical Specification  
No. 30,523).

Model HAVJ189IS/W41 (GR4) - Shower Pullcord,  
(refer to Technical Specification  
No. 30,523).

DUTY STATION

*(Note to specification writer: Specify one  
duty station for each room used for ex-  
amining, X-ray, utility and other service  
rooms.)*

Model CC61ILS/W43 - Duty Station, (refer  
to Technical Specification No. 30,522).

STAFF STATION

*(Note to specification writer: Specify  
staff station for operating room and  
other rooms used by staff members.)*

Model CC40ILS/W43 - Staff Station, (refer  
to Technical Specification No. 30,518).

BASIC EQUIPMENT

*(Note to specification writer: Specify  
one surface or flush mounted equipment  
cabinet, one power supply unit and one  
flasher unit per system. One connect-  
orized or non-connectorized block with  
mounting bracket is required per each 20  
stations in the system.)*

Model A8518S Equipment Cabinet for surface  
mounting, (refer to Technical Specifica-  
tion No. 5,317).

Model A8518W - Equipment Cabinet for flush  
mounting, (refer to Technical Specifica-  
tion No. 5,317).

Model M217 Power Supply, (refer to Tech-  
nical Specification No. 5,009).

Model CCJ195 Flasher Unit, (refer to  
Technical Specification No. 30,530).

## EQUIPMENT SPECIFICATION (CONT'D.)

BASIC EQUIPMENT (CONT'D.)

Model LB200480 Connectorized Block,  
(refer to Technical Specification  
No. 30,505).

Models LB200470 Non-Connectorized Block  
and MK200471 Mounting Bracket, (refer to  
Technical Specification No. 30,505).

HOUSINGS AND BACKBOXES

(Note to specification writer: Specify  
the appropriate housings and backboxes  
as per model designations of equipment  
specified. All dimensions are in  
inches.)

SURFACE HOUSINGS

<u>Type</u>	<u>Model</u>	<u>Width</u>	<u>Height</u>	<u>Depth</u>
S31	AA6754	11-15/16	7	2-3/4
S41	A30423	2-7/8	4-5/8	2-1/4
S41 (Shallow)	A9307	2-7/8	4-5/8	1-3/8
S41 (Deep)	A30243	2-7/8	4-5/8	2-3/4
S42	A8275	4-3/4	4-3/4	2-3/4
S43	A30018	6-1/2	4-3/4	2-3/4

FLUSH WALL BACKBOXES

<u>Type</u>	<u>Model</u>	<u>Width</u>	<u>Height</u>	<u>Depth</u>
W31	AA6864	10-5/16	5-1/2	3
W41	*72171 With 72C14	4-11/16	4-11/16	2-7/8
W42	*72171 With 72C18	4-11/16	4-11/16	2-7/8
W43	*H3BD With 3GC	8-13/16	4-1/2	3-5/16

\*Recommended Steel City Backboxes not pro-  
vided by Executone. To be supplied  
locally.

W43 TO W1 ADAPTER KIT

(Note to specification writer: Specify  
one adapter kit per each Care/Com W43  
type station to be installed over exist-  
ing W1 type oversized backbox.)

Model AA38120 - W43 to W1 Adapter Kit,  
(refer to Technical Specification  
No. 30,546).

WIRE AND CABLE

(Note to specification writer: Specify  
the wire and cable required for system  
being specified.)

<u>Model</u>	<u>Type</u>	<u>Technical Specification</u>
W3P	Cable	30,445
W25P	Cable	30,484
WCCS8	Cable	30,531
WS2	Wire	30,215
WS5	Wire	1,355
WT2V	Wire	1,354
WWC3	Cable	30,142
WWC7	Cable	1,898

# Executone<sup>®</sup>

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## TECHNICAL SPECIFICATIONS

CARE/COM<sup>™</sup>  
CONTROL STATION  
MODEL CC720AHD

### DESCRIPTION:

Desk type Control Station with audio-visual call registration and selective direct access for up to twenty stations for immediate two-way voice communication. The Control Station can easily be expanded to call up to forty or sixty stations. Contains handset for confidential conversations.

### CONTROLS AND INDICATORS:

Twenty combination station selector buttons and call indicator lamps; two monitoring buttons; two combination standby buttons and indicator lamps; one patient call register lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

### HANDSET AND SPEAKER-MICROPHONE:

Handset - carbon button transmitter and magnetic receiver. Speaker-Microphone - dynamic 3" (7.62cm) cone type with Alnico V magnet; voice coil impedance is 45 ohms.

### SOLID STATE AMPLIFIER MODULE:

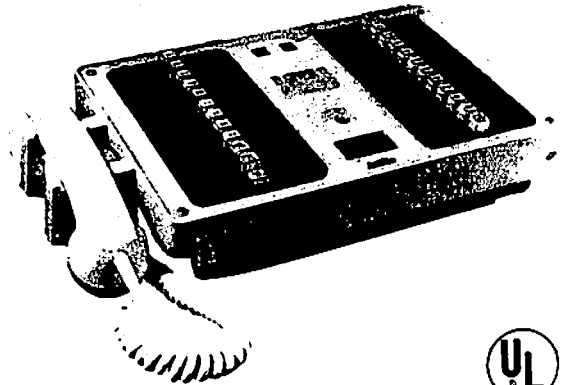
Output Power - 3 to 5 watts, depending on load; Input and Output Impedance - for 45 ohm lines; Frequency Response - peaked for maximum voice articulation.

### POWER CONSUMPTION AT 24VDC:

Standby - 40 ma; Voice Communication - 350 ma; Each Call Placement - 40 ma.  
No AC outlet required.

### HOUSING, FINISH AND DIMENSIONS:

High impact, molded ABS housing with metal faceplate finished in off-white and blue. Maximum dimensions: 17-1/4" (43.82cm) wide x 6-3/8" (16.19cm) high x 9-1/2" (24.13cm) deep.



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### Feature Highlights

- \* Tone signals announce placement of calls.
- \* Lamps under each button identifies calling patient.
- \* Repeated tone signal reminds nurse of unanswered calls.
- \* Courtesy circuit suppresses tone signals to prevent interruption during voice communication.
- \* Emergency calls easily recognized by flashing lamp and interrupted tone signals.
- \* Solid state amplification and modular construction assure reliability and minimum servicing.
- \* Call buttons can be used to call patient stations, staff stations, duty stations, for monitoring a group of stations or for paging group of up to 20 stations simultaneously.
- \* Equipped with standard female connectors to accept prewired cable for quick installation.

**CONTEL EXECUTONE**

THE TOTAL HEALTH CARE COMMUNICATIONS COMPANY  
5550 Triangle Road, Dallas, Texas 75241

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

### MODEL CC720AHD CONTROL STATION

The desk type Control Station shall provide audio-visual call registration and selective direct access for up to twenty stations for immediate two-way communication. Facilities shall be provided for expansion of Control Station to call up to forty or sixty stations. Tone signals shall announce incoming calls and repeated tone signals shall remind nurse of unanswered calls. Emergency calls shall easily be recognized by flashing lamp and interrupted tone signals. A courtesy circuit shall be included to suppress tone signals to prevent interruption during voice communication. A speaker-microphone shall be incorporated for fast handling of calls. Switching to confidential conversation shall be possible by optional use of handset. The handset shall contain a carbon button transmitter and a magnetic receiver.

The following controls and indicators shall be provided: twenty combination station buttons and call indicator lamps; two monitoring buttons; two combination standby buttons and indicator lamps; one patient call register lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

The speaker-microphone shall be a dynamic 3" (7.62cm) cone type with Alnico V magnet. The impedance of the speaker's voice coil shall be 45 ohms. The solid state amplifier module shall be capable of providing a power output of 3 to 5 watts depending on the load. The input and output impedance shall be suitable for 45 ohm lines. The frequency response shall be peaked for maximum voice articulation.

The Control Station shall incorporate solid state amplification and modular construction for maximum reliability and minimum servicing. All components in the housing shall be mounted on a frame which shall be easily accessible by removing the faceplate. The unit shall be equipped with standard female connector to accept prewired cable for quick installation.

The power consumption at 24VDC shall be: during standby - 40 ma; during voice communication - 350 ma; placement of each call - 40 ma. No AC outlet shall be required. The housing shall be a high impact, molded ABS and metal faceplate finished in off-white and blue. The maximum dimensions shall be: 17-1/4" (43.82cm) wide x 6-3/8" (16.19cm) high x 9-1/2" (24.13cm) deep.

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## TECHNICAL SPECIFICATIONS

CARE/COM<sup>™</sup>  
CONTROL STATION  
MODEL CC720AHDW816

### DESCRIPTION:

Wall recessed Control Station with audio-visual call registration and selective direct access for up to twenty stations for immediate two-way voice communication. The Control Station can easily be expanded to call up to forty or sixty stations, without having to remove the backbox. Contains handset for confidential conversations.

### CONTROLS AND INDICATORS:

Twenty combination station selector buttons and call indicator lamps; two monitoring buttons; two combination standby buttons and indicator lamps; one patient call register lamp; one busy lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

### HANDSET AND SPEAKER-MICROPHONE:

Handset - carbon button transmitter and magnetic receiver. Speaker-Microphone - dynamic 3" (7.62cm) cone type with Alnico V magnet; voice coil impedance is 45 ohms.

### SOLID STATE AMPLIFIER MODULE:

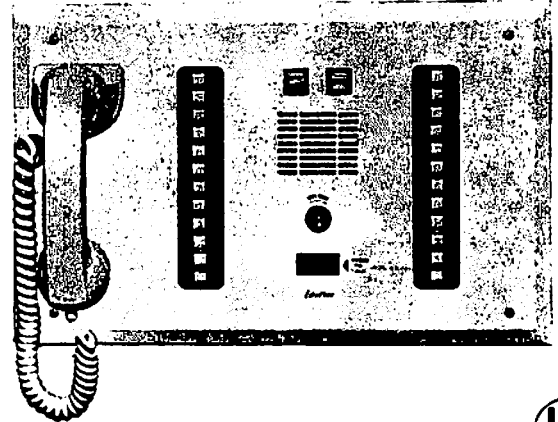
Output Power - 3 to 5 watts, depending on load; Input and Output Impedance - for 45 ohm lines; Frequency Response - peaked for maximum voice articulation.

### POWER CONSUMPTION AT 24VDC:

Standby - 40 ma; Voice Communication - 350 ma; Each Call Placement - 40 ma.  
No AC outlet required.

### HOUSING, FINISH AND DIMENSIONS:

Metal faceplate finished in off-white and blue; galvanized metal backbox. Maximum dimensions: Faceplate - 19" (48.3cm) W x 12-1/16" (30.6cm) H; Backbox - 17-1/4" (43.8cm) W x 13-5/16" (33.8cm) H x 4" (10.2cm) D; includes cable dressing well concealed behind finished wall, with dimensions of 17-1/4" (43.8cm) W x 3" (7.6cm) H x 2-3/4" (6.9cm) D.



### Feature Highlights

- \* Tone signals announce placement of calls.
- \* Lamps under each button identifies calling patient.
- \* Repeated tone signal reminds nurse of unanswered calls.
- \* Courtesy circuit suppresses tone signals to prevent interruption during voice communication.
- \* Emergency calls easily recognized by flashing lamp and interrupted tone signals.
- \* Solid state amplification and modular construction assure reliability and minimum servicing.
- \* Call buttons can be used to call patient stations, staff stations, duty stations, for monitoring a group of stations or for paging group of up to 20 stations simultaneously.
- \* Equipped with standard female connectors to accept prewired cable for quick installation.

CONTEL



## MODEL CC720AHDW816 CONTROL STATION

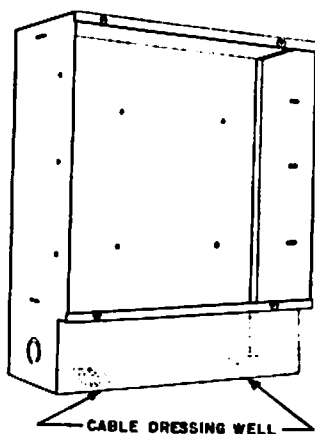
The wall recessed Control Station shall provide audio-visual call registration and selective direct access for up to twenty stations for immediate two-way communication. Facilities shall be provided for expansion of Control Station to call up to forty or sixty stations, without having to remove the backbox. Tone signals shall announce incoming calls and repeated tone signals shall remind nurse of unanswered calls. Emergency calls shall easily be recognized by flashing lamp and interrupted tone signals. A courtesy circuit shall be included to suppress tone signals to prevent interruption during voice communication. A speaker-microphone shall be incorporated for fast handling of calls. Switching to confidential conversation shall be possible by optional use of handset. The handset shall contain a carbon button transmitter and a magnetic receiver.

The following controls and indicators shall be provided: twenty combination station buttons and call indicator lamps; two monitoring buttons; two combination standby buttons and indicator lamps; one patient call register lamp; one busy lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

The speaker-microphone shall be a dynamic 3" (7.62cm) cone type with Alnico V magnet. The impedance of the speaker's voice coil shall be 45 ohms. The solid state amplifier module shall be capable of providing a power output of 3 to 5 watts depending on the load. The input and output impedance shall be suitable for 45 ohm lines. The frequency response shall be peaked for maximum voice articulation.

The Control Station shall incorporate solid state amplification and modular construction for maximum reliability and minimum servicing. All components shall be mounted on a frame which shall be easily accessible by removing the faceplate. The unit shall be equipped with standard female connector to accept prewired cable for quick installation.

The power consumption at 24VDC shall be: during standby - 40 ma; during voice communication - 350 ma; placement of each call - 40 ma. No AC outlet shall be required. The metal faceplate shall be finished in off-white and blue, with a galvanized metal backbox. The maximum dimensions shall be: Faceplate - 19" (48.3cm) W x 12-1/16" (30.6cm) H; Backbox - 17-1/4" (43.8cm) W x 13-5/16" (33.8cm) H x 4" (10.2cm) D (including a 17-1/4" (43.8cm) W x 3" (7.6cm) H x 2-3/4" (6.9cm) D cable dressing well, which shall be concealed by the finished wall).



**NOTE**  
**CABLE DRESSING**  
**WELL MUST BE**  
**MOUNTED BEHIND**  
**FINISHED WALL.**

# TECHNICAL SPECIFICATIONS

CARE/COM™  
CONTROL STATION  
MODEL CC740AHD

## DESCRIPTION:

Desk type Control Station with audio-visual call registration and selective direct access for up to forty stations for immediate two-way voice communication. The Control Station can easily be expanded to call up to sixty stations. Contains handset for confidential conversations.

## CONTROLS AND INDICATORS:

Forty combination station selector buttons and call indicator lamps; four monitoring buttons; four combination standby buttons and indicator lamps; one patient call register lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

## HANDSET AND SPEAKER-MICROPHONE:

Handset - carbon button transmitter and magnetic receiver. Speaker-Microphone - dynamic 3" (7.62cm) cone type with Alnico V magnet; voice coil impedance is 45 ohms.

## SOLID STATE AMPLIFIER MODULE:

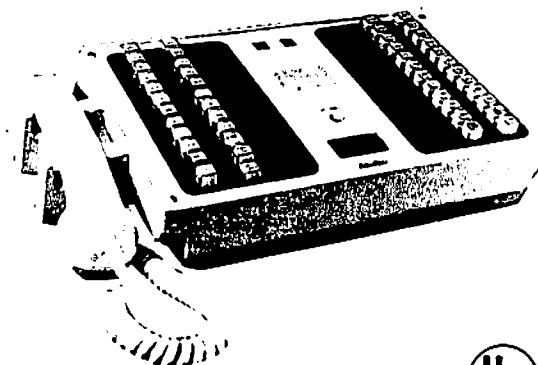
Output Power - 3 to 5 watts, depending on load; Input and Output Impedance - for 45 ohm lines; Frequency Response - peaked for maximum voice articulation.

## POWER CONSUMPTION AT 24VDC:

Standby - 40 ma; Voice Communication - 350 ma; Each Call Placement - 40 ma.  
No AC outlet required.

## HOUSING, FINISH AND DIMENSIONS:

High impact, molded ABS housing with metal faceplate finished in off-white and blue. Maximum dimensions: 17-1/4" (43.82cm) wide x 6-3/8" (16.19cm) high x 9-1/2" (24.13cm) deep.



## Feature Highlights

- \* Tone signals announce placement of calls.
- \* Lamps under each button identifies calling patient.
- \* Repeated tone signal reminds nurse of unanswered calls.
- \* Courtesy circuit suppresses tone signals to prevent interruption during voice communication.
- \* Emergency calls easily recognized by flashing lamp and interrupted tone signals.
- \* Solid state amplification and modular construction assure reliability and minimum servicing.
- \* Call buttons can be used to call patient stations, staff stations, duty stations, for monitoring a group of stations or for paging group of up to 20 stations simultaneously.
- \* Equipped with standard female connectors to accept prewired cables for quick installation.

**CONTEL** EXECUTONE

THE TOTAL HEALTH CARE COMMUNICATIONS COMPANY<sup>SM</sup>  
5550 Triangle Park Ave., Norcross, GA 30051

EAA/LM2/79

TS30516 Issue D

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

### MODEL CC740AHD CONTROL STATION

The desk type Control Station shall provide audio-visual call registration and selective direct access for up to forty stations for immediate two-way communication. Facilities shall be provided for expansion of Control Station to call up to sixty stations. Tone signals shall announce incoming calls and repeated tone signals shall remind nurse of unanswered calls. Emergency calls shall easily be recognized by flashing lamp and interrupted tone signals. A courtesy circuit shall be included to suppress tone signals to prevent interruption during voice communication. A speaker-microphone shall be incorporated for fast handling of calls. Switching to confidential conversation shall be possible by optional use of handset. The handset shall contain a carbon button transmitter and a magnetic receiver.

The following controls and indicators shall be provided: forty combination station buttons and call indicator lamps; four monitoring buttons; four combination standby buttons and indicator lamps; one patient call register lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

The speaker-microphone shall be a dynamic 3" (7.62cm) cone type with Alnico V magnet. The impedance of the speaker's voice coil shall be 45 ohms. The solid state amplifier module shall be capable of providing a power output of 3 to 5 watts depending on the load. The input and output impedance shall be suitable for 45 ohm lines. The frequency response shall be peaked for maximum voice articulation.

The Control Station shall incorporate solid state amplification and modular construction for maximum reliability and minimum servicing. All components in the housing shall be mounted on a frame which shall be easily accessible by removing the faceplate. The unit shall be equipped with standard female connectors to accept prewired cables for quick installation.

The power consumption at 24VDC shall be: during standby - 40 ma; during voice communication - 350 ma; placement of each call - 40 ma. No AC outlet shall be required. The housing shall be a high impact, molded ABS and metal faceplate finished in off-white and blue. The maximum dimensions shall be: 17-1/4" (43.82cm) wide x 6-3/8" (16.19cm) high x 9-1/2" (24.13cm) deep.

# Executone<sup>®</sup>

## TECHNICAL SPECIFICATIONS

CARE/COM<sup>TM</sup>  
CONTROL STATION  
MODEL CC740(AHDW816)

### DESCRIPTION:

Wall recessed Control Station with audio-visual call registration and selective direct access for up to forty stations for immediate two-way voice communication. The Control Station can easily be expanded to call up to sixty stations, without having to remove the backbox. Contains handset for confidential conversations.

### CONTROLS AND INDICATORS:

Forty combination station selector buttons and call indicator lamps; four monitoring buttons; four combination standby buttons and indicator lamps; one patient call register lamp; one busy lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

### HANDSET AND SPEAKER-MICROPHONE:

Handset - carbon button transmitter and magnetic receiver. Speaker-Microphone - dynamic 3" (7.62cm) cone type with Alnico V magnet; voice coil impedance is 45 ohms.

### SOLID STATE AMPLIFIER MODULE:

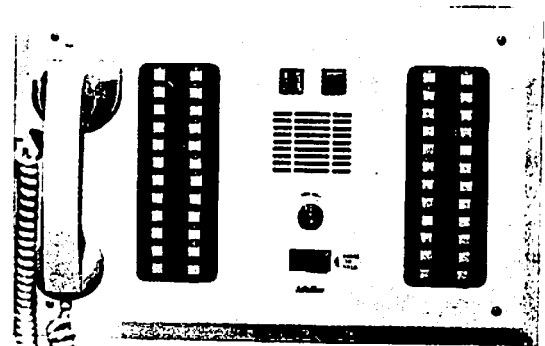
Output Power - 3 to 5 watts, depending on load; Input and Output Impedance - for 45 ohm lines; Frequency Response - peaked for maximum voice articulation.

### POWER CONSUMPTION AT 24VDC:

Standby - 40 ma; Voice Communication - 350 ma; Each Call Placement - 40 ma.  
No AC outlet required.

### HOUSING, FINISH AND DIMENSIONS:

Metal faceplate finished in off-white and blue; galvanized metal backbox. Maximum dimensions: Faceplate - 19" (48.3cm) W x 12-1/16" (30.6cm) H; Backbox - 17-1/4" (43.8cm) W x 13-5/16" (33.8cm) H x 4" (10.2cm) D; includes cable dressing well concealed behind finished wall, with dimensions of 17-1/4" (43.8cm) W x 3" (7.6cm) H x 2-3/4" (6.9cm) D.



### Feature Highlights

- \* Tone signals announce placement of calls.
- \* Lamps under each button identifies calling patient.
- \* Repeated tone signal reminds nurse of unanswered calls.
- \* Courtesy circuit suppresses tone signals to prevent interruption during voice communication.
- \* Emergency calls easily recognized by flashing lamp and interrupted tone signals.
- \* Solid state amplification and modular construction assure reliability and minimum servicing.
- \* Call buttons can be used to call patient stations, staff stations, duty stations, for monitoring a group of stations or for paging group of up to 20 stations simultaneously.
- \* Equipped with standard female connectors to accept prewired cables for quick installation.

CONTEL

## MODEL CC740AHDW816 CONTROL STATION

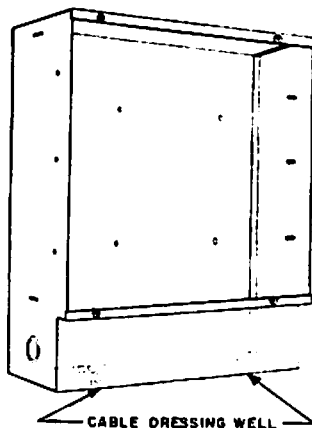
The wall recessed Control Station shall provide audio-visual call registration and selective direct access for up to forty stations for immediate two-way communication. Facilities shall be provided for expansion of Control Station to call up to sixty stations, without having to remove the backbox. Tone signals shall announce incoming calls and repeated tone signals shall remind nurse of unanswered calls. Emergency calls shall easily be recognized by flashing lamp and interrupted tone signals. A courtesy circuit shall be included to suppress tone signals to prevent interruption during voice communication. A speaker-microphone shall be incorporated for fast handling of calls. Switching to confidential conversation shall be possible by optional use of handset. The handset shall contain a carbon button transmitter and a magnetic receiver.

The following controls and indicators shall be provided: forty combination station buttons and call indicator lamps; four monitoring buttons; four combination standby buttons and indicator lamps; one patient call register lamp; one busy lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

The speaker-microphone shall be a dynamic 3" (7.62cm) cone type with Alnico V magnet. The impedance of the speaker's voice coil shall be 45 ohms. The solid state amplifier module shall be capable of providing a power output of 3 to 5 watts depending on the load. The input and output impedance shall be suitable for 45 ohm lines. The frequency response shall be peaked for maximum voice articulation.

The Control Station shall incorporate solid state amplification and modular construction for maximum reliability and minimum servicing. All components shall be mounted on a frame which shall be easily accessible by removing the faceplate. The unit shall be equipped with standard female connectors to accept prewired cables for quick installation.

The power consumption at 24VDC shall be: during standby - 40 ma; during voice communication - 350 ma; placement of each call - 40 ma. No AC outlet shall be required. The metal faceplate shall be finished in off-white and blue, with a galvanized metal backbox. The maximum dimensions shall be: Faceplate - 19" (48.3cm) W x 12-1/16" (30.6cm) H; Backbox - 17-1/4" (43.8cm) W x 13-5/16" (33.8cm) H x 4" (10.2cm) D (including a 17-1/4" (43.8cm) W x 3" (7.6cm) H x 2-3/4" (6.9cm) D cable dressing well, which shall be concealed by the finished wall).



**NOTE**  
**CABLE DRESSING**  
**WELL MUST BE**  
**MOUNTED BEHIND**  
**FINISHED WALL.**

# Executone®

## TECHNICAL SPECIFICATIONS

CARE/COM™  
CONTROL STATION  
MODEL CC760AHD

### DESCRIPTION:

Desk type Control Station with audio-visual call registration and selective direct access for up to sixty stations for immediate two-way voice communication. Contains handset for confidential conversations.

### CONTROLS AND INDICATORS:

Sixty combination station selector buttons and call indicator lamps; six monitoring buttons; six combination standby buttons and indicator lamps; one patient call register lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

### HANDSET AND SPEAKER-MICROPHONE:

Handset - carbon button transmitter and magnetic receiver. Speaker-Microphone - dynamic 3" (7.62cm) cone type with Alnico V magnet; voice coil impedance is 45 ohms.

### SOLID STATE AMPLIFIER MODULE:

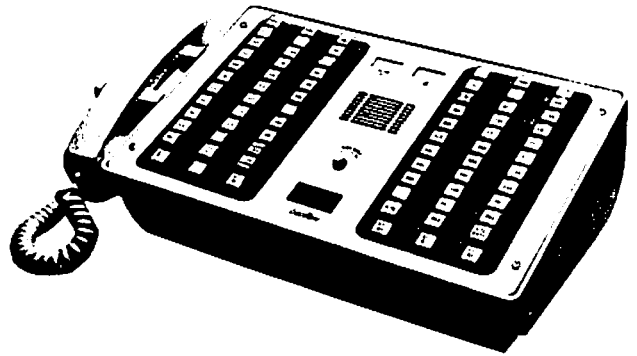
Output Power - 3 to 5 watts, depending on load; Input and Output Impedance - for 45 ohm lines; Frequency Response - peaked for maximum voice articulation.

### POWER CONSUMPTION AT 24VDC:

Standby - 40 ma; Voice Communication - 350 ma; Each Call Placement - 40 ma.  
No AC outlet required.

### HOUSING, FINISH AND DIMENSIONS:

High impact, molded ABS housing with metal faceplate finished in off-white and blue. Maximum dimensions: 17-1/4" (43.82cm) wide x 6-3/8" (16.19cm) high x 9-1/2" (24.13cm) deep.



## Feature Highlights

- \* Tone signals announce placement of calls.
- \* Lamps under each button identifies calling patient.
- \* Repeated tone signal reminds nurse of unanswered calls.
- \* Courtesy circuit suppresses tone signals to prevent interruption during voice communication.
- \* Emergency calls easily recognized by flashing lamp and interrupted tone signals.
- \* Solid state amplification and modular construction assure reliability and minimum servicing.
- \* Call buttons can be used to call patient stations, staff stations, duty stations, for monitoring a group of stations or for paging group of up to 20 stations simultaneously.
- \* Equipped with standard female connectors to accept prewired cables for quick installation.

**CONTEL**

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

### MODEL CC760AHD CONTROL STATION

The desk type Control Station shall provide audio-visual call registration and selective direct access for up to sixty stations for immediate two-way communication. Tone signals shall announce incoming calls and repeated tone signals shall remind nurse of unanswered calls. Emergency calls shall easily be recognized by flashing lamp and interrupted tone signals. A courtesy circuit shall be included to suppress tone signals to prevent interruption during voice communication. A speaker-microphone shall be incorporated for fast handling of calls. Switching to confidential conversation shall be possible by optional use of handset. The handset shall contain a carbon button transmitter and a magnetic receiver.

The following controls and indicators shall be provided: sixty combination station buttons and call indicator lamps; six monitoring buttons; six combination standby buttons and indicator lamps; one patient call register lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

The speaker-microphone shall be a dynamic 3" (7.62cm) cone type with Alnico V magnet. The impedance of the speaker's voice coil shall be 45 ohms. The solid state amplifier module shall be capable of providing a power output of 3 to 5 watts depending on the load. The input and output impedance shall be suitable for 45 ohm lines. The frequency response shall be peaked for maximum voice articulation.

The Control Station shall incorporate solid state amplification and modular construction for maximum reliability and minimum servicing. All components in the housing shall be mounted on a frame which shall be easily accessible by removing the faceplate. The unit shall be equipped with standard female connectors to accept prewired cables for quick installation.

The power consumption at 24VDC shall be: during standby - 40 ma; during voice communication - 350 ma; placement of each call - 40 ma. No AC outlet shall be required. The housing shall be high impact, molded ABS and metal faceplate finished in off-white and blue. The maximum dimensions shall be: 17-1/4" (43.82cm) wide x 6-3/8" (16.19cm) high x 9-1/2" (24.13cm) deep.

# Executone®

## TECHNICAL SPECIFICATIONS

CONTROL STATION  
MODEL CC760A-1DW816

### DESCRIPTION:

Wall recessed Control Station with audio-visual call registration and selective direct access for up to sixty stations for immediate two-way voice communication. Contains handset for confidential conversations.

### CONTROLS AND INDICATORS:

Sixty combination station selector buttons and call indicator lamps; six monitoring buttons; six combination standby buttons and indicator lamps; one patient call register lamp; one busy lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

### HANDSET AND SPEAKER-MICROPHONE:

Handset - carbon button transmitter and magnetic receiver. Speaker-Microphone - dynamic 3" (7.62cm) cone type with Alnico V magnet; voice coil impedance is 45 ohms.

### SOLID STATE AMPLIFIER MODULE:

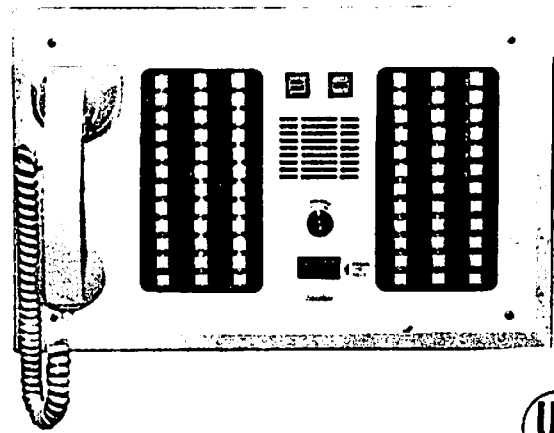
Output Power - 3 to 5 watts, depending on load; Input and Output Impedance - for 45 ohm lines; Frequency Response - peaked for maximum voice articulation.

### POWER CONSUMPTION AT 24VDC:

Standby - 40 ma; Voice Communication - 350 ma; Each Call Placement - 40 ma. No AC outlet required.

### HOUSING, FINISH AND DIMENSIONS:

Metal faceplate finished in off-white and blue; galvanized metal backbox. Maximum dimensions: Faceplate - 19" (48.3cm) W x 12-1/16" (30.6cm) H; Backbox - 17-1/4" (43.8cm) W x 13-5/16" (33.8cm) H x 4" (10.2cm) D; includes cable dressing well concealed behind finished wall, with dimensions of 17-1/4" (43.8cm) W x 3" (7.6cm) H x 2-3/4" (6.9cm) D.



### Feature Highlights

- \* Tone signals announce placement of calls.
- \* Lamps under each button identifies calling patient.
- \* Repeated tone signal reminds nurse of unanswered calls.
- \* Courtesy circuit suppresses tone signals to prevent interruption during voice communication.
- \* Emergency calls easily recognized by flashing lamp and interrupted tone signals.
- \* Solid state amplification and modular construction assure reliability and minimum servicing.
- \* Call buttons can be used to call patient stations, staff stations, duty stations, for monitoring a group of stations or for paging group of up to 20 stations simultaneously.
- \* Equipped with standard female connectors to accept prewired cables for quick installation.

**CONTEL**



## MODEL CC760AHDW816 CONTROL STATION

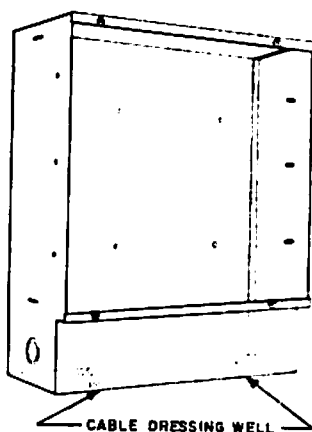
The wall recessed Control Station shall provide audio-visual call registration and selective direct access for up to sixty stations for immediate two-way communication. Tone signals shall announce incoming calls and repeated tone signals shall remind nurse of unanswered calls. Emergency calls shall easily be recognized by flashing lamp and interrupted tone signals. A courtesy circuit shall be included to suppress tone signals to prevent interruption during voice communication. A speaker-microphone shall be incorporated for fast handling of calls. Switching to confidential conversation shall be possible by optional use of handset. The handset shall contain a carbon button transmitter and a magnetic receiver.

The following controls and indicators shall be provided: sixty combination station buttons and call indicator lamps; six monitoring buttons; six combination standby buttons and indicator lamps; one patient call register lamp; one busy lamp; one talk-listen bar; handset's talk-listen switch and one incoming volume control.

The speaker-microphone shall be a dynamic 3" (7.62cm) cone type with Alnico V magnet. The impedance of the speaker's voice coil shall be 45 ohms. The solid state amplifier module shall be capable of providing a power output of 3 to 5 watts depending on the load. The input and output impedance shall be suitable for 45 ohm lines. The frequency response shall be peaked for maximum voice articulation.

The Control Station shall incorporate solid state amplification and modular construction for maximum reliability and minimum servicing. All components shall be mounted on a frame which shall be easily accessible by removing the faceplate. The unit shall be equipped with standard female connectors to accept prewired cables for quick installation.

The power consumption at 24VDC shall be: during standby - 40 ma; during voice communication - 350 ma; placement of each call - 40 ma. No AC outlet shall be required. The metal faceplate shall be finished in off-white and blue, with a galvanized metal backbox. The maximum dimensions shall be: Faceplate - 19" (48.3cm) W x 12-1/16" (30.6cm) H; Backbox - 17-1/4" (43.8cm) W x 13-5/16" (33.8cm) H x 4" (10.2cm) D (including a 17-1/4" (43.8cm) W x 3" (7.6cm) H x 2-3/4" (6.9cm) D cable dressing well, which shall be concealed by the finished wall).



**NOTE**  
**CABLE DRESSING**  
**WELL MUST BE**  
**MOUNTED BEHIND**  
**FINISHED WALL.**

# Executone<sup>®</sup>

## TECHNICAL SPECIFICATIONS

CARE/COM<sup>TM</sup>  
STAFF STATION  
MODEL CC40ILS/W43

### DESCRIPTION:

Wall recessed or surface mounted Staff Station for use in solariums, examining rooms, day rooms and other service areas. Provides call origination and two-way voice communication with Nurse Control Station.

### CIRCUITRY:

Solid state signal switching, reed relay for audio switching and crossbar palladium switch contacts.

### CONTROLS AND INDICATORS:

One white combination call button and indicator lamp; one red combination call cancellation button and privacy indicator lamp.

### SPEAKER-MICROPHONE:

Dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet and voice coil impedance of 45 ohms.

### HOUSING AND FINISH:

Faceplate - high impact, molded ABS finished in off-white supplied with nylon screws for mounting.

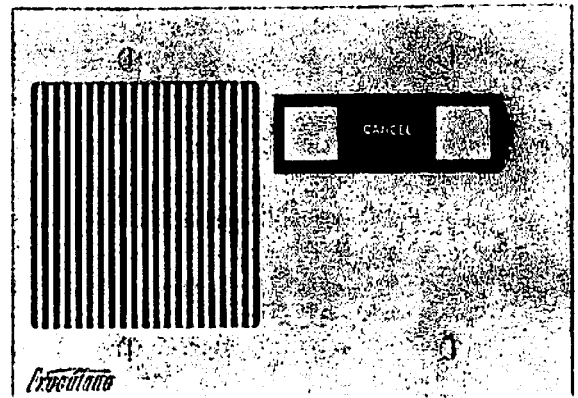
S43 Housing - three-gang box for surface mounting.

### DIMENSIONS:

Faceplate - 6-3/8" (16.19cm) wide x 4-1/2" (11.43cm) high.

S43 Housing - 6-1/2" (16.51cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep.

W43 Backbox - 8-13/16" (22.38cm) wide x 4-1/2" (11.43cm) high, electrical box with three-gang adapter for total depth of 3-5/16" (8.41cm) (supplied by others).



## Feature Highlights

- \* Simplicity of operation eliminates the need of special instructions.
- \* Extreme clarity and sensitivity of voice pickup.
- \* High impact, molded ABS faceplate furnished with nylon mounting screws for maximum safety against electrical shock.
- \* Operating life of hermetically enclosed reed relay exceeds 10,000,000 cycles.
- \* Station unit plugs into prewired edge connector for ease of installation and maintenance.
- \* Compact design allows installation into existing standard three-gang electrical box.

**CONTEL**

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

### MODEL CC40ILS/W43 STAFF STATION

The wall recessed or surface mounted Staff Station shall be used in areas such as solariums, examining rooms, day rooms and other service areas. The Staff Station shall provide call origination and two-way voice communication with Nurse Control Station.

The Staff Station shall contain one white combination call button and indicator lamp and one red combination nurse call cancellation button and privacy indicator lamp.

To insure long life and reliability, solid state circuitry shall be used for signal switching and reed relay for audio switching. The reed relay shall be hermetically enclosed with operating life exceeding 10,000,000 cycles. All switch contacts shall be of crossbar palladium type for long life. The speaker-microphone shall be a dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet. The impedance of speaker-microphone's voice coil shall be 45 ohms. The faceplate shall be fastened to backbox with nylon screws furnished for maximum safety against electrical shock.

The station unit shall plug into prewired edge connector for ease of installation and maintenance. All components shall be mounted on a faceplate designed to fit into a standard three-gang electrical box.

The faceplate shall be high impact, molded ABS finished in off-white. The S43 housing shall be a three-gang box for surface mounting. The dimensions shall be: faceplate - 6-3/8" (16.19cm) wide x 4-1/2" (11.43cm) high; S43 housing - 6-1/2" (16.51cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep; W43 backbox - 8-13/16" (22.38cm) wide x 4-1/2" (11.43cm) high, electrical box with three-gang adapter for total depth of 3-5/16" (8.41cm) (supplied by others).

## TECHNICAL SPECIFICATIONS

CARE/COM<sup>TM</sup>  
PATIENT'S BEDSIDE STATION  
MODEL CC41ILS/W42

### DESCRIPTION:

Wall recessed or surface mounted Patient's Station for use with remote call origination cordset and two-way voice communication with Nurse Control Station.

### CIRCUITRY:

Solid state signal switching, reed relay for audio switching and crossbar palladium switch contacts.

### CONTROLS AND INDICATORS:

One red combination call cancellation button and privacy indicator lamp, and one white call placement indicator lamp.

### RECEPTACLE:

Accepts cordset with standard single prong connector.

### SPEAKER-MICROPHONE:

Dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet and voice coil impedance of 45 ohms.

### HOUSING AND FINISH:

Faceplate - high impact, molded ABS finished in off-white supplied with nylon screws for mounting.

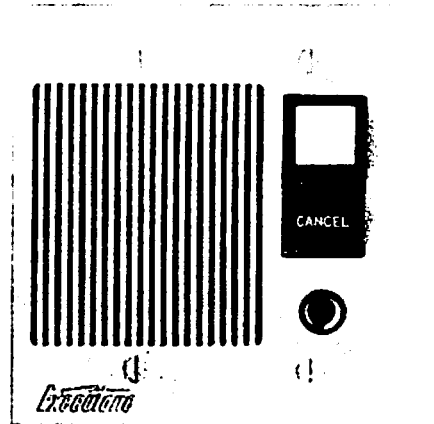
S42 Housing - two-gang box for surface mounting.

### DIMENSIONS:

Faceplate - 4-9/16" (11.59cm) wide x 4-1/2" (11.43cm) high.

S42 Housing - 4-3/4" (12.07cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep.

W42 Backbox - 4-11/16" (11.91cm) wide x 4-11/16" (11.91cm) high, electrical box with two-gang adapter for total depth of 2-7/8" (7.30cm) (supplied by others).



## Feature Highlights

- \* Simplicity of operation eliminates the need of special instructions.
- \* Call is originated if cordset is accidentally removed from receptacle.
- \* Extreme clarity and sensitivity of voice pickup.
- \* High impact, molded ABS faceplate furnished with nylon mounting screws for maximum safety against electrical shock.
- \* Operating life of hermetically enclosed reed relay exceeds 10,000,000 cycles.
- \* Station unit plugs into prewired edge connector for ease of installation and maintenance.
- \* Compact design allows installation into existing standard two-gang electrical box.

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

### MODEL CC411LS/W42 PATIENT'S BEDSIDE STATION

The wall recessed or surface mounted Patient's Station shall be for use with remote call origination cordset and two-way voice communication with Nurse Control Station.

The Patient's Station shall be provided with a red combination call cancellation button and privacy indicator lamp, and one white call placement indicator lamp. A receptacle shall be provided to accept cordset with standard single prong connector. A call shall be originated if the cordset is accidentally removed from the receptacle.

To insure long life and reliability, solid state circuitry shall be used for signal switching and reed relay for audio switching. The reed relay shall be hermetically enclosed and shall have an operating life exceeding 10,000,000 cycles. All switch contacts shall be of cross-bar palladium type for long life. The speaker-microphone shall be a dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet. The impedance of speaker-microphone's voice coil shall be 45 ohms. The faceplate shall be fastened to backbox with nylon screws for maximum safety against electrical shock.

The station unit shall plug into prewired edge connectors for ease of installation and maintenance. All components shall be mounted on a faceplate designed to fit into a standard two-gang electrical box.

The faceplate shall be high impact, molded ABS finished in off-white. The S42 housing shall be a two-gang box for surface mounting. The dimensions shall be: faceplate - 4-9/16" (11.59cm) wide x 4-1/2" (11.43cm) high; S42 housing - 4-3/4" (12.07cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep; W42 backbox - 4-11/16" (11.91cm) wide x 4-11/16" (11.91cm) high, electrical box with two-gang adapter for total depth of 2-7/8" (7.30cm) (supplied by others).

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## TECHNICAL SPECIFICATIONS

CARE/COM<sup>TM</sup>  
PATIENT'S BEDSIDE STATION  
MODEL CC41ILS/W43

### DESCRIPTION:

Wall recessed or surface mounted Patient's Station for use with remote call origination cordset or Pillow Speaker and two-way voice communication with Nurse Control Station. Facilities are provided for TV and radio control.

### CIRCUITRY:

Solid state signal switching, reed relay for audio switching and crossbar palladium switch contacts.

### CONTROLS AND INDICATORS:

One red combination call cancellation button and privacy indicator lamp, and one white call placement indicator lamp.

### RECEPTACLE:

One multi-purpose receptacle to accept single prong type cordset or Pillow Speaker.

### SPEAKER-MICROPHONE:

Dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet and voice coil impedance of 45 ohms.

### HOUSING AND FINISH:

Faceplate - high impact, molded ABS finished in off-white supplied with nylon screws for mounting.

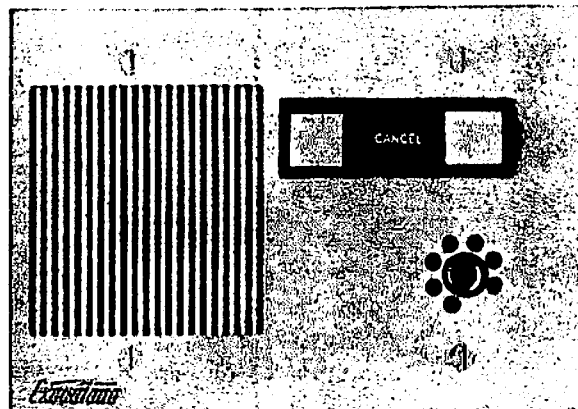
S43 Housing - three-gang box for surface mounting.

### DIMENSIONS:

Faceplate - 6-3/8" (16.19cm) wide x 4-1/2" (11.43cm) high.

S43 Housing - 6-1/2" (16.51cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep.

W43 Backbox - 8-13/16" (22.38cm) wide x 4-1/2" (11.43cm) high, electrical box with three-gang adapter for total depth of 3-5/16" (8.41cm) (supplied by others).



## Feature Highlights

- \* Simplicity of operation eliminates the need of special instructions.
- \* Call is originated if Pillow Speaker or cordset is accidentally removed from receptacle.
- \* Extreme clarity and sensitivity of voice pickup.
- \* High impact, molded ABS faceplate furnished with nylon mounting screws for maximum safety against electrical shock.
- \* Operating life of hermetically enclosed reed relay exceeds 10,000,000 cycles.
- \* Station unit plugs into prewired edge connectors for ease of installation and maintenance.
- \* Compact design allows installation into existing standard three-gang electrical box.

**CONTEL**

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

### MODEL CC41ILS/W43 PATIENT'S BEDSIDE STATION

The wall recessed or surface mounted Patient's Station shall be for use with remote call origination cordset or Pillow Speaker and two-way voice communication with Nurse Control Station. Facilities for TV and radio control shall be provided.

The Patient's Station shall be provided with a red combination call cancellation button and privacy indicator lamp, and one white call placement indicator lamp. One multi-purpose receptacle shall be provided to accept single prong type cordset or Pillow Speaker. A call shall be originated if the Pillow Speaker or cordset is accidentally removed from the receptacle.

To insure long life and reliability, solid state circuitry shall be used for signal switching and reed relay for audio switching. The reed relay shall be hermetically enclosed and shall have an operating life exceeding 10,000,000 cycles. All switch contacts shall be of crossbar palladium type for long life. The speaker-microphone shall be a dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet. The impedance of speaker-microphone's voice coil shall be 45 ohms. The faceplate shall be fastened to backbox with nylon screws furnished for maximum safety against electrical shock.

The station unit shall plug into prewired edge connectors for ease of installation and maintenance. All components shall be mounted on a faceplate designed to fit into a standard three-gang electrical box.

The faceplate shall be high impact, molded ABS finished in off-white. The S43 housing shall be a three-gang box for surface mounting. The dimensions shall be: faceplate - 6-3/8" (16.19cm) wide x 4-1/2" (11.43cm) high; S43 housing - 6-1/2" (16.51cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep; W43 backbox - 8-13/16" (22.38cm) wide x 4-1/2" (11.43cm) high, electrical box with three-gang adapter for total depth of 3-5/16" (8.41cm) (supplied by others).

## TECHNICAL SPECIFICATIONS

CARE/COM<sup>™</sup>  
PATIENT'S BEDSIDE STATION  
MODEL CC42IILS/W43

### DESCRIPTION:

Wall recessed or surface mounted dual Patients' Station for use with two remote call origination cordsets or Pillow Speakers and two-way voice communication with Nurse Control Station. Facilities are provided for TV and radio control.

### CIRCUITRY:

Solid state signal switching, reed relay for audio switching and crossbar palladium switch contacts.

### CONTROLS AND INDICATORS:

One red combination call cancellation button and privacy indicator lamp, and two white call placement indicator lamps.

### RECEPTACLES:

Two multi-purpose receptacles, each to accept single prong type cordset or Pillow Speaker.

### SPEAKER-MICROPHONE:

Dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet and voice coil impedance of 45 ohms.

### HOUSING AND FINISH:

Faceplate - high impact, molded ABS finished in off-white supplied with nylon screws for mounting.

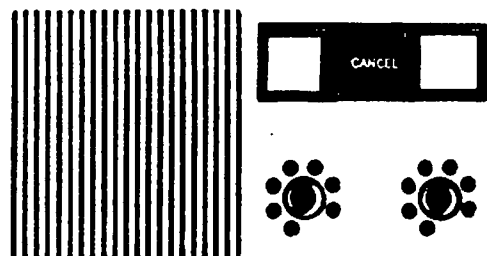
S43 Housing - three-gang box for surface mounting.

### DIMENSIONS:

Faceplate - 6-3/8" (16.19cm) wide x 4-1/2" (11.43cm) high.

S43 Housing - 6-1/2" (16.51cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep.

W43 Backbox - 8-13/16" (22.38cm) wide x 4-1/2" (11.43cm) high, electrical box with three-gang adapter for total depth of 3-5/16" (8.41cm) (supplied by others).



*Executone*



## Feature Highlights

- \* Simplicity of operation eliminates the need of special instructions.
- \* Call is originated if Pillow Speaker or cordset is accidentally removed from receptacle.
- \* Extreme clarity and sensitivity of voice pickup.
- \* High impact, molded ABS faceplate furnished with nylon mounting screws for maximum safety against electrical shock.
- \* Operating life of hermetically enclosed reed relay exceeds 10,000,000 cycles.
- \* Station unit plugs into prewired edge connectors for ease of installation and maintenance.
- \* Compact design allows installation into existing standard three-gang electrical box.



## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

### MODEL CC42IILS/W43 PATIENTS' BEDSIDE STATION

The wall recessed or surface mounted dual Patients' Station shall be for use with two remote call origination cordsets or Pillow Speakers and two-way voice communication with Nurse Control Station. Facilities for TV and radio control shall be provided.

The Patients' Station shall be provided with a red combination call cancellation button and privacy indicator lamp, and two white call placement indicator lamps. Two multi-purpose receptacles shall be provided, each to accept single prong type cordset or Pillow Speaker. A call shall be originated if the Pillow Speaker or cordset is accidentally removed from the receptacle.

To insure long life and reliability, solid state circuitry shall be used for signal switching and reed relay for audio switching. The reed relay shall be hermetically enclosed and shall have an operating life exceeding 10,000,000 cycles. All switch contacts shall be of crossbar palladium type for long life. The speaker-microphone shall be a dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet. The impedance of speaker-microphone's voice coil shall be 45 ohms. The faceplate shall be fastened to backbox with nylon screws furnished for maximum safety against electrical shock.

The station unit shall plug into prewired edge connectors for ease of installation and maintenance. All components shall be mounted on a faceplate designed to fit into a standard three-gang electrical box.

The faceplate shall be high impact, molded ABS finished in off-white. The S43 housing shall be a three-gang box for surface mounting. The dimensions shall be: faceplate - 6-3/8" (16.19cm) wide x 4-1/2" (11.43cm) high; S43 housing - 6-1/2" (16.51cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep; W43 backbox - 8-13/16" (22.38cm) wide x 4-1/2" (11.43cm) high, electrical box with three-gang adapter for total depth of 3-5/16" (8.41cm) (supplied by others).

## TECHNICAL SPECIFICATIONS

CARE/COM™  
DUTY STATION  
MODEL CC61ILS/W43

### DESCRIPTION:

Wall recessed or surface mounted Duty Station with call origination facility and two-way voice communication between utility area and the Control Station. Provides visual and audio indication of all patient calls in system.

### CIRCUITRY:

Solid state signal switching, relay for audio switching and crossbar palladium switch contacts.

### CONTROLS AND INDICATORS:

One nurse call button and indicator lamp; one red combination call cancellation button and privacy indicator lamp; and one patient call indicator lamp. Tone signals announce incoming calls. Repeating tone signals announce unanswered calls. Interrupted tone signals indicate emergency calls.

### SPEAKER-MICROPHONE:

Dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet and voice coil impedance of 45 ohms.

### HOUSING AND FINISH:

Faceplate - high impact, molded ABS finished in off-white supplied with nylon screws for mounting.

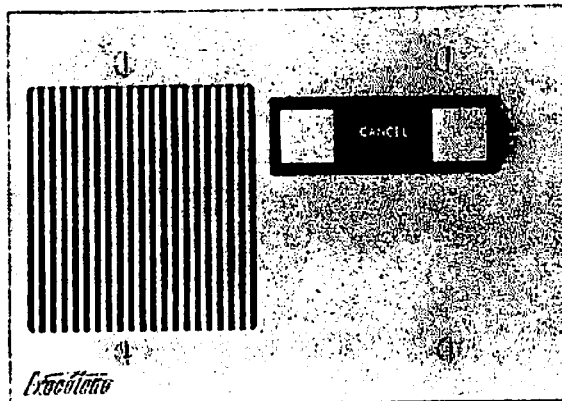
S43 Housing - three-gang box for surface mounting.

### DIMENSIONS:

Faceplate - 6-3/8" (16.19cm) wide x 4-1/2" (11.43cm) high.

S43 Housing - 6-1/2" (16.51cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep.

W43 Backbox - 8-13/16" (22.38cm) wide x 4-1/2" (11.43cm) high, electrical box with three-gang adapter for total depth of 3-5/16" (8.41cm) (supplied by others).



## Feature Highlights

- \* Provides visual and audio indication of all patient calls.
- \* Repeated tone signal alerts personnel of unanswered calls.
- \* Simplicity of operation eliminates the need of special instructions.
- \* High impact, molded ABS faceplate furnished with nylon mounting screws for maximum safety against electrical shock.
- \* Operating life of relay exceeds 5,000,000 cycles.
- \* Station unit plugs into prewired edge connector for ease of installation and maintenance.
- \* Compact design allows installation into existing standard three-gang electrical box.

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

### MODEL CC61ILS/W43 DUTY STATION

The wall recessed or surface mounted Duty Station shall contain the facility for call origination to the Control Station and shall automatically indicate all patient calls. The Duty Station (normally used in utility areas where personnel are not in constant attendance) shall provide two-way voice communication with the system Control Station. During undermanned shifts, nurse in any of the utility areas shall be fully aware of patient calls.

One patient call indicator lamp shall be provided to indicate patient calls to personnel at the Duty Station location (steady light shall indicate normal calls and flashing light shall indicate emergency calls). One combination nurse call button and indicator lamp shall be provided to originate a call to the Control Station. One red combination call cancellation button and privacy indicator lamp shall be provided to cancel call to Control Station. The red indicator lamp shall be illuminated when intercom line from the Control Station to the Duty Station is engaged. Tone signals shall announce incoming calls. Repeating tone signals shall announce unanswered calls. Interrupted tone signals shall indicate emergency calls.

To insure long life and reliability, solid state circuitry shall be used for signal switching and relay for audio switching. Operating life of relay shall exceed 5,000,000 cycles. All switch contacts shall be of crossbar palladium type for long life. The speaker-microphone shall be a dynamic 2-1/4" (5.72cm) cone type with Alnico V magnet. The impedance of speaker-microphone's voice coil shall be 45 ohms. The faceplate shall be fastened to backbox with nylon screws furnished for maximum safety against electrical shock.

The station unit shall plug into prewired edge connector for ease of installation and maintenance. All components shall be mounted on a faceplate designed to fit into a standard three-gang electrical box.

The faceplate shall be high impact, molded ABS finished in off-white. The S43 housing shall be a three-gang box for surface mounting. The dimensions shall be: faceplate - 6-3/8" (16.19cm) wide x 4-1/2" (11.43cm) high; S43 housing - 6-1/2" (16.51cm) wide x 4-3/4" (12.07cm) high x 2-3/4" (6.99cm) deep; W43 backbox - 8-13/16" (22.38cm) wide x 4-1/2" (11.43cm) high, electrical box with three-gang adapter for total depth of 3-5/16" (8.41cm) (supplied by others).

## HOW TO DETERMINE CONDUIT SIZE AND WIRE RESISTANCE

## CONDUIT SIZE CHART FOR EXECUTONE WIRE AND CABLES

WIRE AND CABLE		MAXIMUM NUMBER OF WIRES AND CABLES PER CONDUIT								
TYPE	FACTOR #									
W3P	3	2	4	7	12	17	28	50	66	
W3V	2	3	7	10	19	25	42	75	100	
W14VS*	13		1	1	2	3	6	11	15	
W19VS*	15			1	1	3	5	10	13	
W26VS*	23				1	2	3	6	8	
W25P*	11		1	1	3	4	7	13	18	
W50P*	22				1	2	3	6	8	
W75P*	23				1	2	3	6	8	
WCCS8*	6	1	1	3	6	8	14	25	33	
WFI19*	17			1	1	2	4	8	11	
WS2	0.75	9	18	28	50	68	112	200	266	
WS3	2	3	7	10	19	25	42	75	100	
WS5	3	2	4	7	12	17	28	50	66	
WS8*	6	1	1	3	6	8	14	25	33	
WS15*	11		1	1	3	4	7	13	18	
WT2V	2	3	7	10	19	25	42	75	100	
WT2HD	3	2	4	7	12	17	28	50	66	
WT3V	3	2	4	7	12	17	28	50	66	
WTS10*	6	1	1	3	6	8	14	25	33	
WVC1**	3	2	4	7	12	17	28	50	66	
WVC1HD**	9		1	2	4	5	9	16	22	
WWC2	3	2	4	7	12	17	28	50	66	
WWC3	5	1	2	4	7	10	16	30	40	
WWC7*	6	1	1	3	6	8	14	25	33	
WWC14*	11		1	1	3	4	7	13	18	
WWC30*	23				1	2	3	6	8	
WWC75*	50						1	2	3	
WWC125*	75						1	1	2	
#4***	10		1	2	3	5	8	15	20	
#6***	6	1	2	3	6	8	14	25	33	
#8***	4	1	3	5	9	12	21	37	50	
#10***	3	2	4	7	12	17	28	50	66	
#12***	2	3	7	10	19	25	42	75	100	
#14***	1.5	4	9	14	25	34	56	100	133	
#16***	1	7	14	21	38	51	84	150	200	
#18***	0.75	9	18	28	50	68	112	200	266	
#20***	0.75	9	18	28	50	68	112	200	266	
#22***	0.5	14	28	42	76	102	168	300	400	
CONDUIT SIZE		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	
CONDUIT FACTOR #		7	14	21	38	51	84	150	200	

## WIRE RESISTANCE CHART

OHMS PER 1,000FT. OF STANDARD ANNEALED COPPER WIRE AT TEMPERATURE OF 20° C.	
GAUGE	RESISTANCE
4	0.2485Ω
5	0.3134Ω
6	0.3952Ω
7	0.4981Ω
8	0.6281Ω
9	0.7925Ω
10	0.9988Ω
11	1.26Ω
12	1.59Ω
13	2.00Ω
14	2.52Ω
15	3.18Ω
16	4.02Ω
17	5.05Ω
18	6.39Ω
19	8.05Ω
20	10.10Ω
21	12.80Ω
22	16.20Ω
23	20.30Ω
24	25.70Ω
25	32.40Ω
26	41.00Ω
27	51.40Ω

## NOTES

- DO NOT RUN LOW AND HIGH LEVEL AUDIO LINES IN THE SAME CONDUIT.
- ADD 4 TO TOTAL WIRE FACTOR REGARDLESS OF NUMBER OF LARGE CABLES USED.
- COAXIAL CABLES, WVC1 MUST NOT BE BENT IN LESS THAN 1-1/2" RADIUS AND WVC1HD MUST NOT BE BENT IN LESS THAN A 4" RADIUS.
- THERMOPLASTIC WIRE (TYPE T, TF, OR TW).

## HOW TO READ CONDUIT SIZE CHART

## HOW TO READ CHART

- Listed to the left, reading top to bottom, are the Executone wires and cables with a WIRE FACTOR number based on the area of the wire.
- Listed across the last line are CONDUIT FACTOR numbers of various conduits, using the area of the conduit BASED ON 40% FILL. Above each conduit factor number is the appropriate conduit size.
- Above each conduit size is the maximum recommended number of wires and cables which will fit into the particular conduit size. This may be exceeded slightly where absolutely necessary, since it is based on 40% fill.
- To determine the conduit size required for a combination of different wires and cables, proceed as follows: (a) Refer to the wire factor numbers of the particular wires and

cables going into the conduit. Add up all the wire factor numbers. When more than one large cable (in chart) is used in same conduit, add a factor of 4 to the total wire factor. (b) With this figure, refer to the conduit factor numbers given for the various conduits. Choose the next conduit size which is larger than the total wire factor number you have computed.

**EXAMPLE 1:** We wish to choose the conduit size for two WS15 cables (wire factor #11), twelve WS2 wires (wire factor #0.75) & two WS3 wires (wire factor #2).

2 - WS15---Wire Factor #11(2 x 11)..... 22  
 12 - WS2---Wire Factor #0.75(12 x 0.75)..... 9  
 2 - WS3---Wire Factor #2(2 x 2)..... 4  
 large cables---Wire Factor #4 ..... 4  
 TOTAL WIRE FACTOR..... 39

## EXAMPLE 1 (Cont'd)

Refer to the conduit factor numbers on the last line. We would use 1-1/2" conduit which has the next largest factor # of 51.

**EXAMPLE 2:** We wish to choose the conduit size for one W19VS cable (wire factor #15) and four WWC14 cables (wire factor #11).

1 - W19VS---Wire Factor #15..... 15  
 4 - WWC14---Wire Factor #11 (4 x 11) ..... 44  
 large cables---Wire Factor #4 ..... 4  
 TOTAL WIRE FACTOR ..... 63

Refer to the conduit factor numbers on the last line. We would use 2" conduit which has the next largest factor # of 84.

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## RECOMMENDATIONS FOR OPEN WIRING

The majority of all Executone installations are made using "open wiring" techniques. Such installation methods call for wires and cables to be run exposed along baseboards, walls, ceilings, etc., and fastened in a workmanlike manner. Careful planning, choice of proper installation accessories, as well as consideration for following approved installation practices, are requisites for long-lasting, trouble-free installations.

Type A-1861 insulated staple is used to secure any of the Executone type wires, from single-conductor to five-conductor to walls, baseboards, etc., as shown in Figure A.

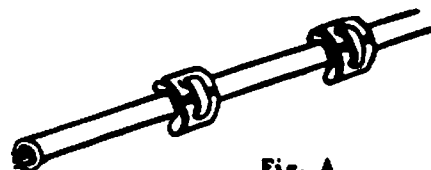


Fig. A

Wires may also be stapled to walls using staple tacking gun, Part #A-7289. Brown colored staples, Part #A-7296 are available for this staple tacking gun.

Type A-1789 cable clamp is normally used to secure a group of wiring lines to the wall or baseboard, etc., on installations which may have several lines following the same route. Figure B indicates manner in which cable clasps are used.

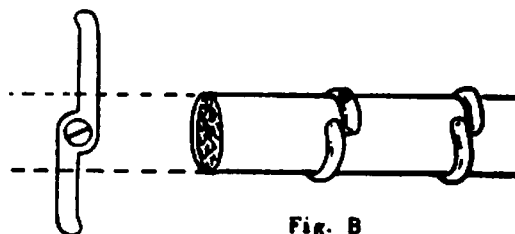


Fig. B

Cables may also be stapled to walls using staple tacking gun, Part #A-7497. Brown colored staples, Part #A-7295 are available for this staple tacking gun.

Type A-1818 and A-1819 drive rings are usually used in industrial areas to retain several lines of wire (single-conductor to five-conductor) or cable. Drive ring is driven into wall like nail and wiring lines or cables are pulled through open loop of the drive ring. Figure C represents manner of using drive ring.

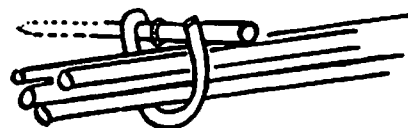


Fig. C

Wires and cables should always be protected by several wraps of friction tape when they pass through walls or floor to prevent abrasion and ultimate breakage or short circuiting conditions. See Figure D.

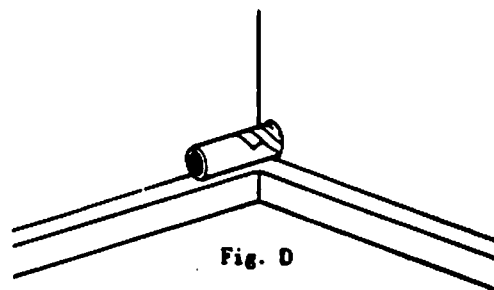


Fig. D

Care must be taken to use the type of wire and accessories recommended for the application. Unshielded wire should never be used where shielded type is called for, etc.

Note: Field wiring to be in accordance with requirements of Inspection Authority having jurisdiction.

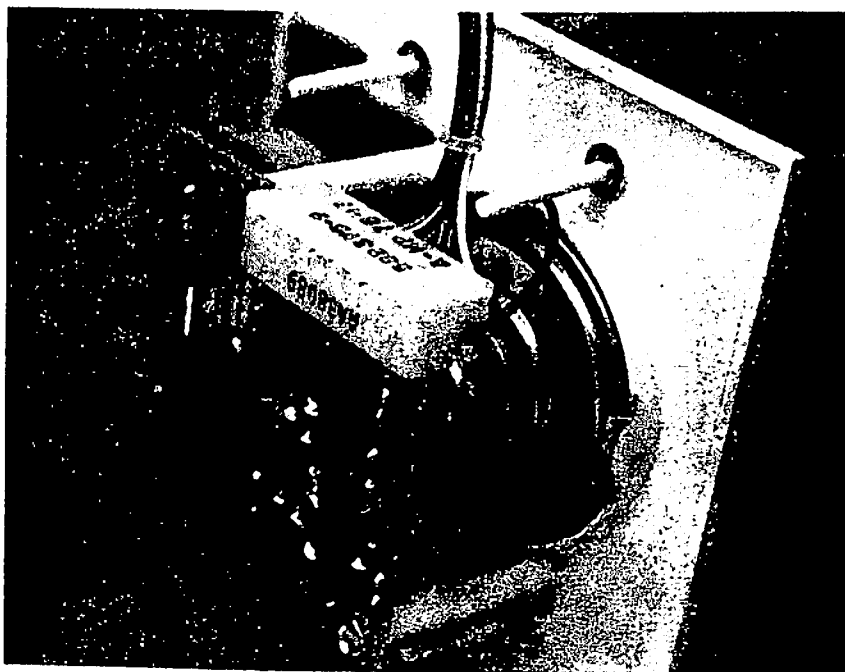
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## INSTALLATION OF CARE/COM AA38089 EDGE CONNECTOR ASSEMBLY

When installing the AA38089 Edge Connector on Care/Com Patient, Duty or Staff Stations make sure the plug is inserted correctly. Either one of the following methods may be used:

1. Insert plug on Edge Connector Assembly into printed circuit board matching the number "1" on the printed circuit board to the number "1" molded into the plastic plug of the Edge Connector Assembly.
2. Insert Plug of Edge Connector Assembly into printed circuit board so that harness wires point towards faceplate as shown in photo below.



AA38089 EDGE CONNECTOR CORRECTLY INSTALLED ON CARE/COM STATION

## LB200480 CONNECTORIZED TERMINAL BLOCK

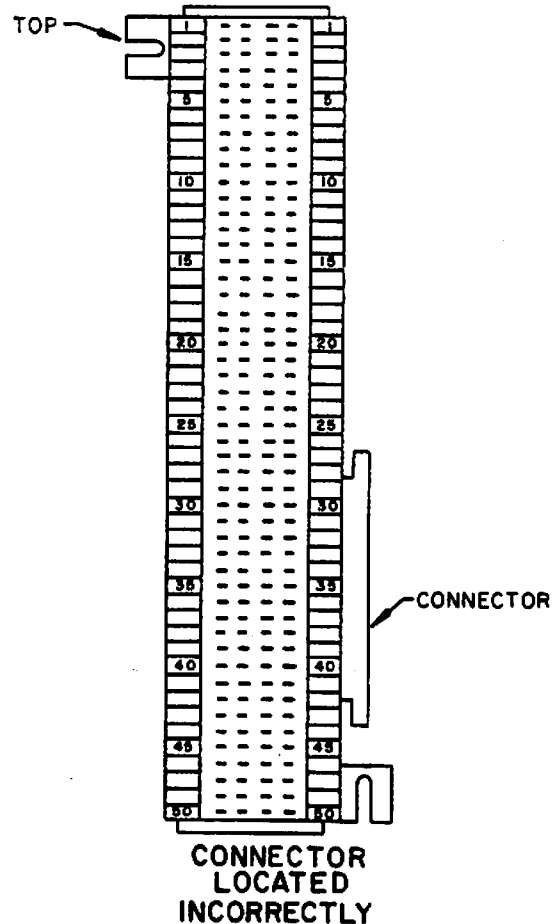
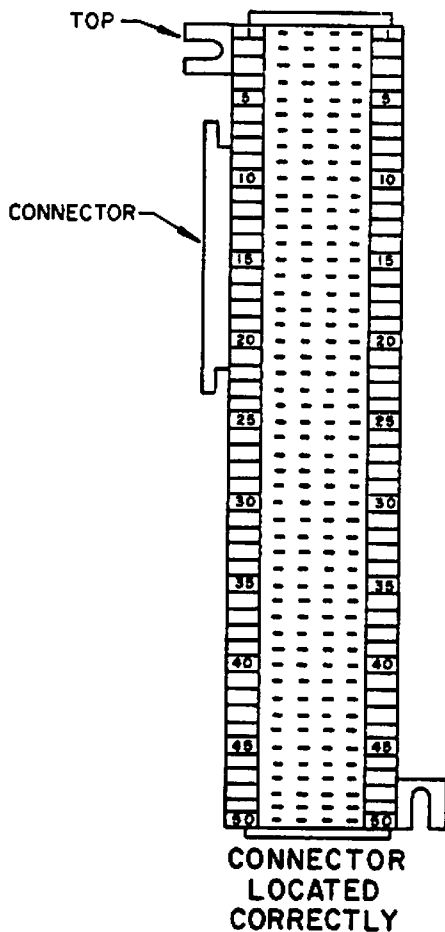
CAUTION: LOCATION OF MALE AMPHENOL CONNECTOR REVERSED

The Executone Model LB200480 Connectorized Terminal Block is provided prewired to a standard male Amphenol "type 57" connector. The connector is normally located on the upper left hand side of the terminal block and is prewired to clips 1 and 2 in each row.

Due to a manufacturing error, a number of these blocks were made with the connector located on the lower right hand side of the terminal block and prewired to clips 3 and 4 in each row.

Prior to installation, check your terminal blocks to determine location of the connector. If the connector is correctly located on the upper left, punch down your cable to clips 1 and 2 in each row. If the connector is incorrectly located on the lower right, punch down your cable to clips 3 and 4 in each row.

Note: Leads must be dressed through the fanning strip to provide strain relief.



## PARTS AND TOOLS

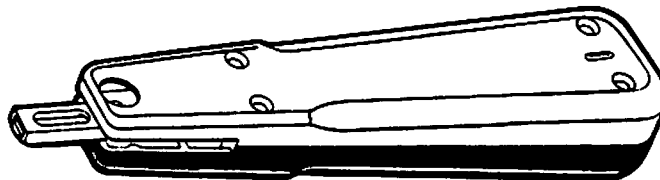


Figure 1. BT200467 Automatic Impact Tool

**BT200467 AUTOMATIC IMPACT TOOL**

Push-on quick-connect terminals are a feature of the connecting blocks. An automatic impact tool is used to make quick easy connections to these terminals. See Figure 1.

The spring loaded Automatic Impact Tool requires less effort and time than other tools used for terminating quick-connect blocks.

The force of a blow from a hammer or an installer's palm, as required in the past, is no longer necessary. To use the tool, the installer need only place the wire in position, set the tool over the split terminal and with slight pressure, push the wire into the terminal. The cutter will trigger automatically at just the right point resulting in more precise and consistent terminations.

An adjustment screw for varying the spring tension, combined with an indicator pointer found at the large end of the handle, provides the means for con-

trolling the impact. This is necessary for the variations in wire sizes and thicknesses of insulation, or to compensate for a dulling blade tip.

The tool is equipped with a blade which can be reversed so that wires may be terminated without cutting. This is accomplished by loosening the set screw at the small end of the handle, rotating the blade 180°, and tightening the screw.

**BT200468 BLADE**

The blade is interchangeable with most tools used for terminating quick-connect blocks. See Figure 2. One end of the blade is designed to terminate and cut off; the opposite end terminates only. Ordered 5 blades to a package (PK/10).

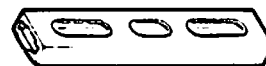


Figure 2. BT200468 Blade



## PARTS AND TOOLS (CONT'D.)

TERMINATIONS

All terminations on quick-connect terminals should be made with the automatic impact tool. The terminals will accept unskinned 20- to 26-gauge wires. However, a 26-gauge wire is easily broken off by a minimum movement of the wire.

Wire of 18- or 19-gauge may be terminated but must be skinned and cleaned (if enameled) first. Smaller gauge wire cannot be terminated subsequently on a terminal that has previously been used with 18- or 19-gauge wire.

NOTE

Steel core wires will damage the cutting edge of the tool.

To Make An Ended Termination of Non Steel-Core Wire

The wire or cable does not continue to another terminal.

- Select wire to be terminated.
- Work wire into a fanning strip or otherwise dress it.
- Place wire in hook of terminal using fingers or long-nose pliers. See Figures 3 and 4.

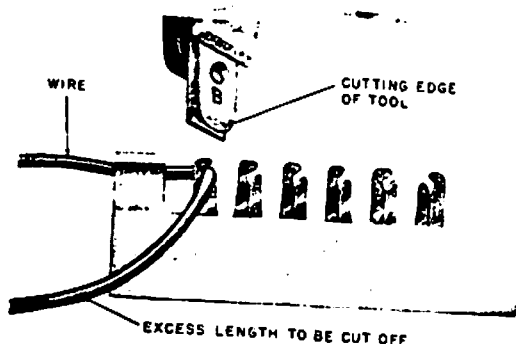


Figure 3. Preparation For Making Ended Termination

- Place cutting end of tool over terminal. Be sure that cutting edge of blade faces the scrap end of wire.

- Force tool toward connecting block until wire has been cut against the face of the connecting block.

NOTE

Push tool straight over terminal. DO NOT bend or twist the terminal.

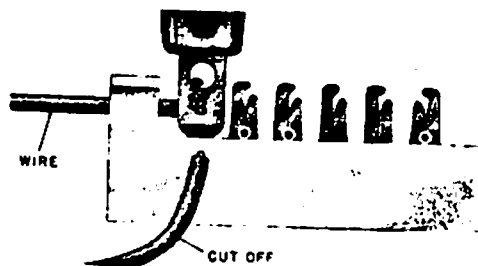


Figure 4. Ended Termination Completed

To Make A Looping Termination

The wire or cable continues to another terminal.

- Turn cutting end of blade into handle of tool. Use seating end.
- Select wire.
- Dress wire.
- Place wire into hook of terminal. See Figure 5.

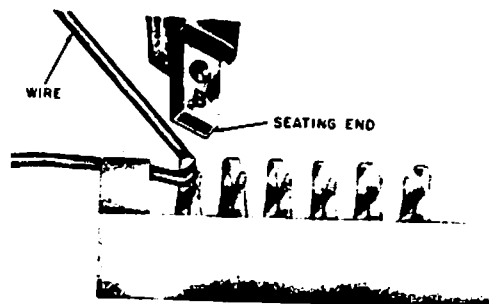


Figure 5. Preparation For Looping Termination

## PARTS AND TOOLS (CONT'D.)

To Make A Looping Termination (Cont'd.)

- e. Place seating end of tool straight over the terminal.
- f. Press tool straight down over terminal until wire is fully seated. See Figure 6.

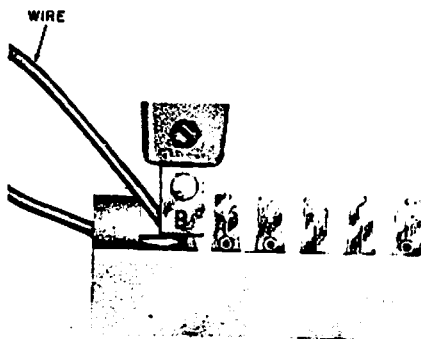


Figure 6. Looping Termination Completed

HT200473 TERMINAL ADAPTER

The HT200473 Adapter provides additional multiplying capacity for terminals adjacent in a horizontal row. It will also act as a jumper if installed between two terminals.

To install:

- a. Position adapter over terminals with spring clasp toward block.
- b. Fit spring clasp over terminals.
- c. Press adapter in until firmly seated. See Figure 8.

NOTE

Installation of this adapter adds height to the block. Check clearance for housing cover.

HC200469 BRIDGING CLIP

HC200469 Bridging Clip is a stainless steel spring clip used to interconnect two adjacent terminals in the same row to increase the multiplying capacity of the block. To install, merely push clip on to terminals. See Figure 7.  
Ordered in a package of 500 (PK/500).

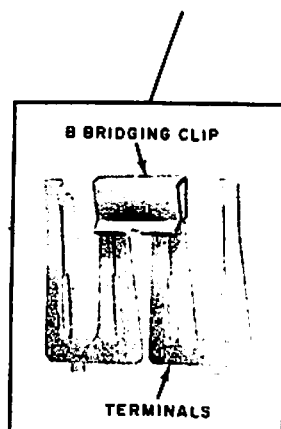


Figure 7. HC200469 Bridging Clip

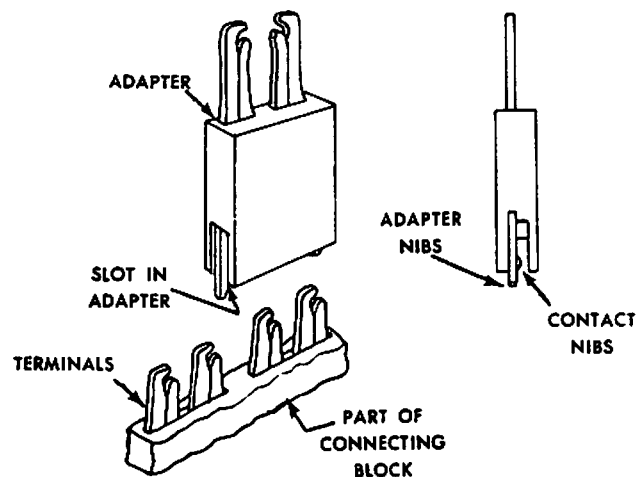


Figure 8. HT200473 Terminal Adapter

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## PARTS AND TOOLS (CONT'D.)

## MAINTENANCE OF TERMINALS

Bent or misaligned terminals may be corrected by using long-nosed pliers. See Figures 9 and 10. Terminals with gaps should not be used. See Figure 11. In some cases an adapter may be used instead of replacing the block.

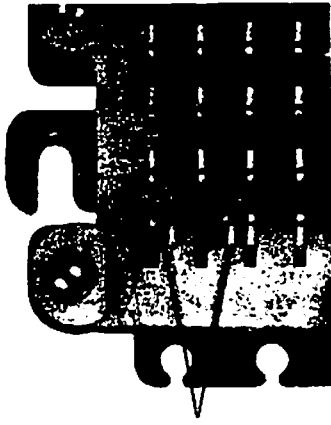


Figure 9. Misaligned Terminal Beams

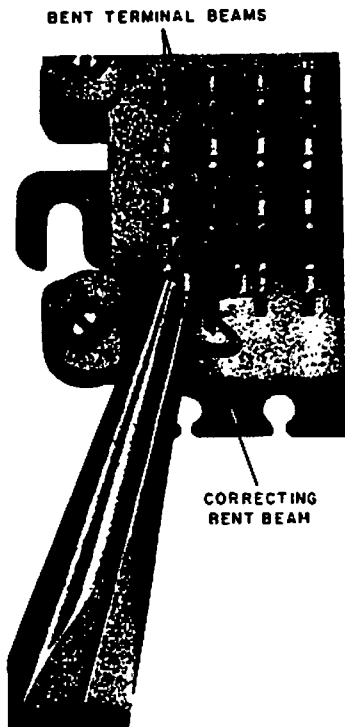


Figure 10. Straightening Terminal Beam



THESE TERMINAL BEAMS  
CANNOT BE CORRECTED  
AND THE TERMINAL  
MUST NOT BE USED

Figure 11. Gap Spread Distorted

## LB200470 CONNECTING BLOCK

The connecting block is used to provide quick, easy push-on terminations for house and station cables. It consists of a plastic base 10" x 2-3/4" x 1-1/4" which holds 50 rows of terminals. Each row consists of 4 terminals identified as "clips". Clip 1 and Clip 2 are internally connected. Clip 3 and Clip 4 are internally connected. Mounts on MX200471 bracket.

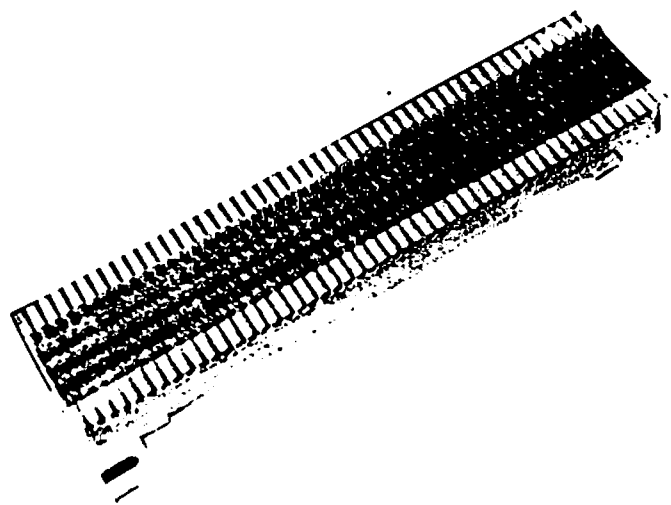


Figure 12. LB200470 Connecting Block

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## PARTS AND TOOLS (CONT'D.)

**MK200471 BRACKET**

The bracket is screwed to a wood base and the connecting block is then snapped on to the bracket. It provides clearance for cables to be brought underneath the connecting block and then fanned out for connection.

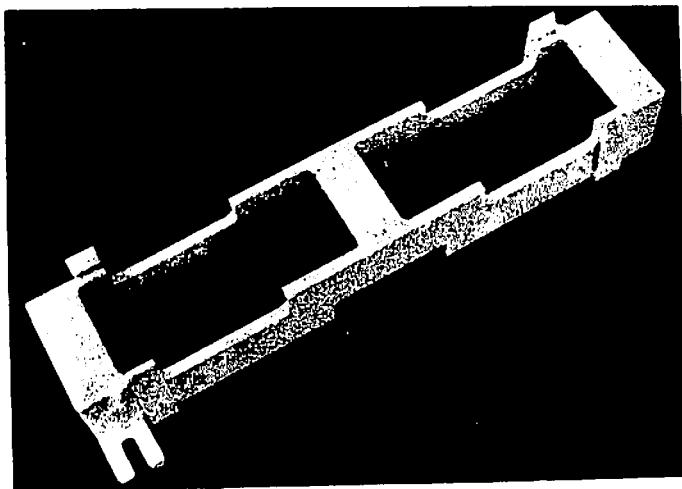


Figure 13. MK200471 Bracket

**HK200481 WIRE "D" RING**

The new "D" ring mounts directly over the connecting block. It takes the place of two standard rings. Wires can be looped in place instead of threaded thru.

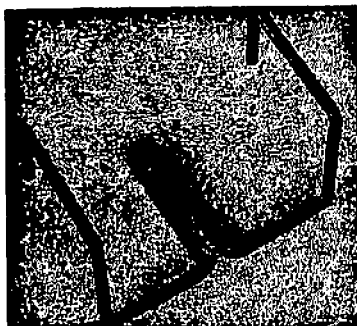


Figure 14. HK200481 Wire "D" Ring

**DF200472 DESIGNATION STRIP**

The designation strip is a plastic strip which snaps on to the connecting block. It enables the installer to mark color codes or other terminal information very readily.

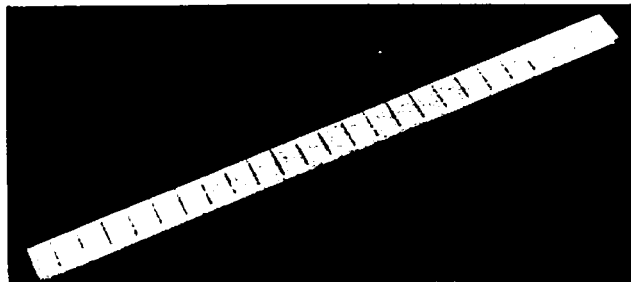


Figure 15. DF200472 Designation Strip

**BT200463 CABLE MARKERS**

Each book of cable markers contains six pages of numbers 1 to 45, three pages of numbers 46 to 90 and one page of blanks. These are readily detachable from the book, wrapped around the wire and self-adhere. Provides permanent cable identification for installation and troubleshooting.



Figure 16. BT200463 Cable Markers

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## PARTS AND TOOLS (CONT'D.)

## BT200482 CABLE TIE WRAP TOOL

The cable tie wrap tool is used to tighten and cut cable tie wraps. Operate as follows:

1. Loop tie wrap around bundle with serrations on inside, hold head, insert tip through head as illustrated, and pull snug by hand.
2. Set selector knob for width of strap being installed. Position 1 for 3/32" wide straps illustrated. For 3/16" wide straps, flip knob 1/2 turn as shown by arrow to position 2. If desired, tension level can be raised by turning knob clockwise and lowered by turning knob counterclockwise.
3. Insert free end of strap in slot across top of tool with cutter blade adjacent to strap head as illustrated.
4. Pull trigger. Tool will tighten strap and cut off excess at preset strap tension.

NOTE

To lock tension set point, install 4 - 40 x 1/4" pan head screw (enclosed) in position shown.

To lock tension level but allow operator selection of position 1 or 2 of selector knob, install 4 - 40 x 5/8" headless screw (enclosed) in position shown.

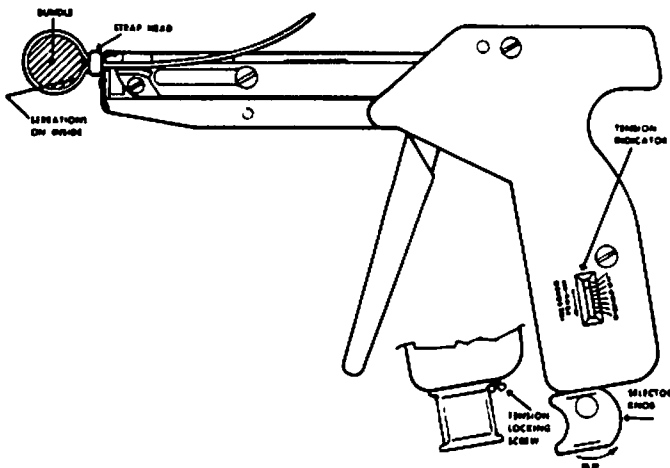


Figure 17. BT200482 Cable Tie Wrap Tool - 10 -

## A31819 TIE WRAP (MINIATURE)

The miniature tie wrap is used to wrap cables for bundle diameters 1/16" to 3/4".

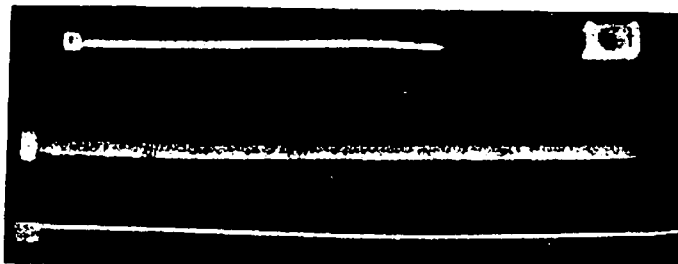


Figure 18. A31819 Tie Wrap (Miniature)  
A31819-1 Tie Wrap (Standard)  
GX200494 Tie Wrap (Standard Releaseable)  
GX200483 Tie Mount

## A31819-1 TIE WRAP (STANDARD)

The standard tie wrap is used to wrap cables for bundle diameters 0 to 1-3/4".

## GX200494 TIE WRAP (STANDARD RELEASEABLE)

The standard releaseable tie wrap is used to wrap cables for bundle diameters 0 to 1-3/4". It is releaseable after tightening.

## GX200483 TIE MOUNT

The tie mount is a small plastic holder with hole for screw mounting and slots for insertion of a tie wrap. It is used to secure a tie wrapped cable to the wood base or to any other supporting surface.

## 0-4435 CABLE TAGS

The paper cable tags with string loop are used to identify cables readily. They are very handy also for miscellaneous identifications, such as for parts, etc.

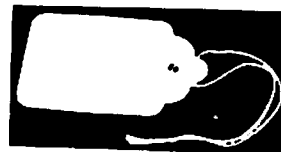


Figure 19. 0-4435 Cable Tags

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## AA-38120 W43 TO W1 ADAPTER KIT

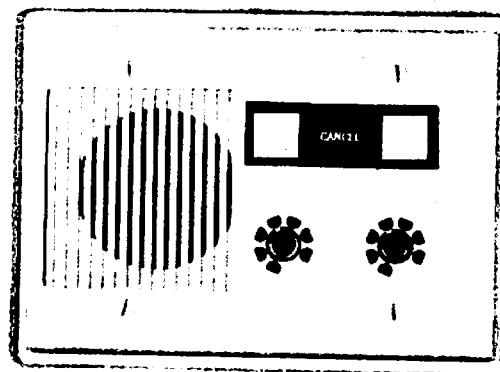
The AA-38120 Kit consists of an adapter faceplate, supplied with a metal subplate and the necessary hardware for the installation of a W43 type Care/Com station into an existing W1 type backbox.

LIST OF PARTS PROVIDED

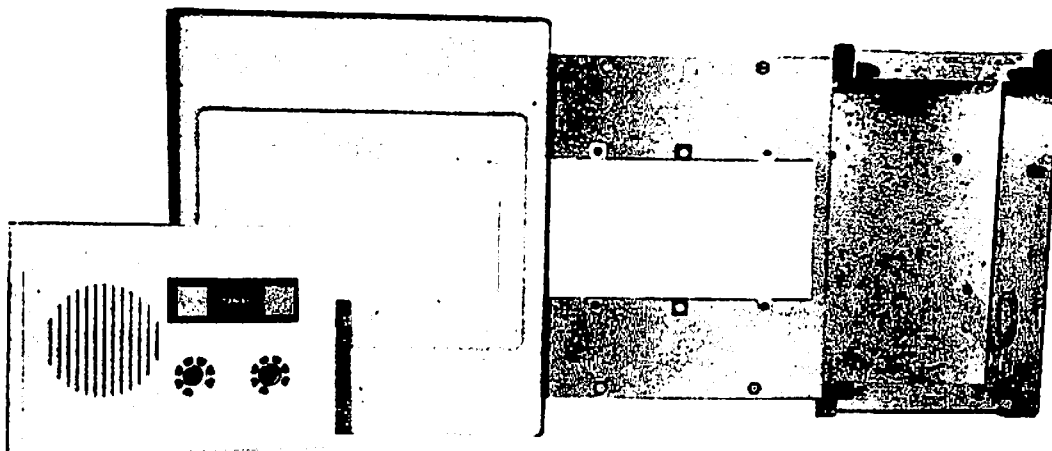
<u>Part No.</u>	<u>Description</u>	<u>Quantity</u>
A-43750	Adapter Faceplate	1
A-43751	Metal Subplate	1
S-6Z8SH1	Hex Head Self Tapping Screw	6
A-9160	Nut for Machine Screw	4
A-2843	Nut for Self Tapping Screw	2

INSTALLATION PROCEDURE

1. Using four S-6Z8SH1 screws, mount the A-43751 metal subplate to the W1 type backbox. Observe "This Side Up" instruction on the metal subplate.
2. Slide the two A-2843 square nuts for self tapping screws over the center holes of the metal subplate until they snap in place.
3. Slide the four A-9160 square nuts for machine screws over the four remaining holes of the metal subplate until they snap in place.
4. Using two S-6Z8SH1 screws, mount the A-43750 adapter faceplate to the metal subplate.
5. After making the necessary connections, mount the W43 type station to the adapter faceplate, using the four nylon screws provided with the station unit.



*AA-38120 Adapter Kit  
Shown With Patient Station*



*Patient Station, Adapter Faceplate, Metal Subplate And W1 Type Backbox*

- 11 -

**Executone inc.**

29-10 Thomson Ave., Long Island City, New York 11101

# INSTALLATION OF CC31S/W42 CARE-LIGHT AND CC31S/W42-CL CEILING LIGHT

The CC31S/W42 Care-Light and CC31S/W42-CL Ceiling-Light are supplied with an adapter subplate and the necessary hardware for installation into a one-gang or two-gang backbox.

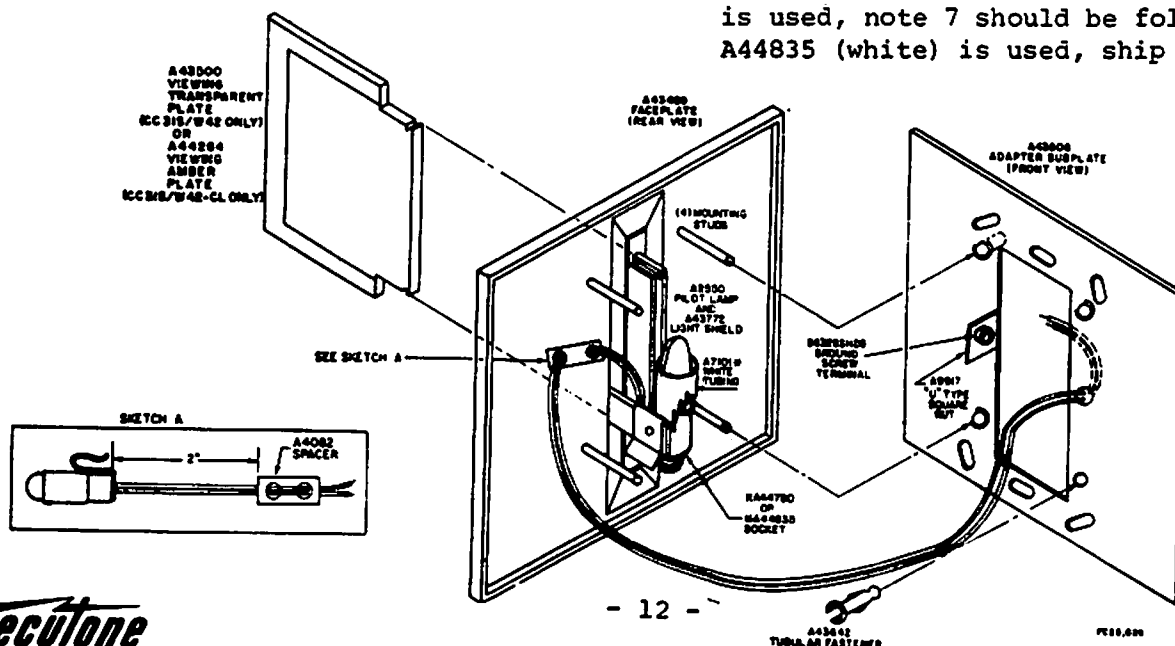
## LIST OF PARTS PROVIDED

Part No.	Description	Qty.
A43499	Faceplate	1
A43500	Viewing Transparent Plate (CC31S/W42 only)	1
A44264	Viewing Amber Plate (CC31S/W42-CL only)	1
AA38298	Adapter Subplate Assembly	1
*A44780	Pilot Lamp Socket (Black)	1
*A44835	Pilot Lamp Socket (White)	1
*A7101	White Tubing 1/2" x 7/8"	1
A2550	Pilot Lamp	1
A43772	Light Shield	1
A4082	Spacer	1
A2237	Wirenut	2
A43642	Tubular Fastener	4
S63216F1	Flat Head 1" Screw	4

## INSTALLATION PROCEDURE

1. Insert the four A43642 tubular fasteners into four corner round holes of the adapter subplate until they snap in place.
2. Using the S63216F1 long flat head screws, mount the A43506 adapter subplate to the backbox. Use two center slots for one-gang backbox or four corner slots for two-gang backbox. Before tightening screws, adjust adapter subplate for proper level.
3. Thread lamp leads through A4082 spacer as shown in Sketch A.

4. Place A4082 spacer between A44780 or A44835 socket and A43499 faceplate.
  5. Run lamp leads through hole on the right side of the A43506 subplate and connect the leads to installation wires in the backbox with the two A2237 wirenuts.
  6. Connect building ground wire to hex head green screw terminal on the left side of the adapter subplate.
  - \* 7. Slip the 7/8" piece of white tubing over the A44780 black lamp socket insulation, making sure that the white tubing and the black lamp socket insulation are even. (See below).
  8. Insert the A2550 pilot lamp into the A44780 or A44835 socket and lock pilot lamp by pushing and rotating it clockwise.
  9. Install A43772 light shield over pilot lamp and snap pilot lamp socket on the faceplate as shown.
  10. Insert the A43500 transparent plate (CC31S/W42 only) or the A44264 amber plate (CC31S/W42-CL only) into faceplate opening and adjust pilot lamp and light shield for maximum transfer of light.
  11. Dress pilot lamp wires inside backbox, and after aligning the four mounting studs of the faceplate into the tubular fasteners, firmly push faceplate until it is securely resting against the wall surface.
- \* Models CC31S/W42 and CC31S/W42-CL may contain either A44780 (black) or A44835 (white) lamp socket. If A44780 (black) is used, note 7 should be followed. If A44835 (white) is used, ship note 7.



**Executone**



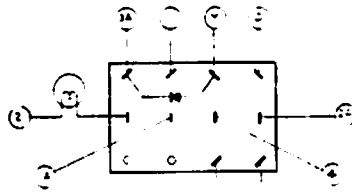


HAV19IS/W41(DEEP)(GR4, 5) TOILET BUTTON,  
HAVJ189IS/W41(DEEP)(GR4, 5) PULLCORD AND  
HAV19IS/W41-BL (DEEP)(GR4) CODE BLUE BUTTON

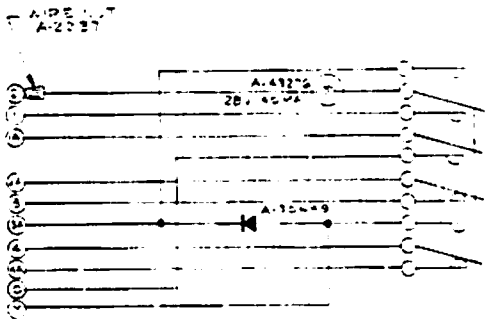
USED WITH HOSPITAL SYSTEM

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HAV19IS/W41(GR4)  
AND  
HAVJ189IS/W41(GR4)



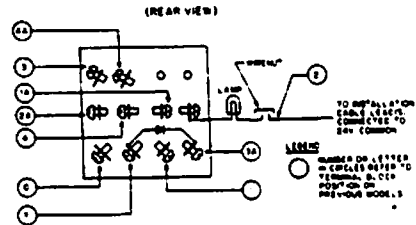
REAR VIEW OF A-2270  
(NOT TO SCALE)



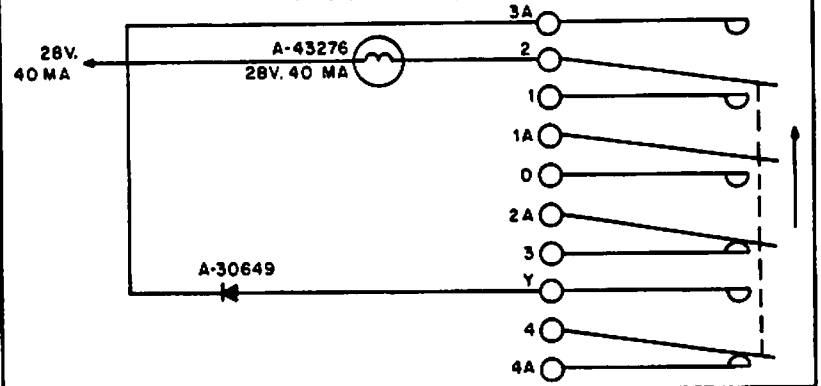
9-5-75

PC-23,612

HAV19IS/W41(GR5)  
OR  
HAVJ189IS/W41(GR5)

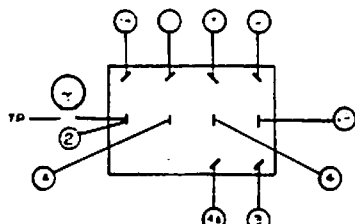


HAV19IS/W41(GR5)  
OR  
HAVJ189IS/W41(GR5)

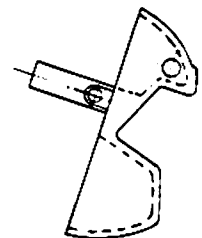
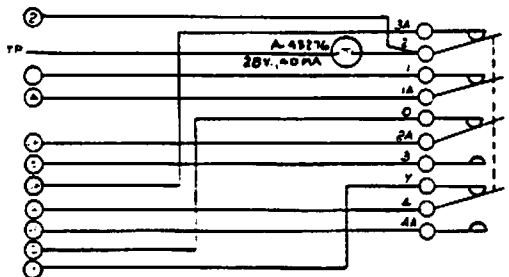


PC-23,612

HAV19IS/W41-BL (DEEP) (GR4) CODE BLUE BUTTON



REAR VIEW OF A-44255-1  
(NOT TO SCALE)



SWITCH SHOWN  
IN NORMALLY OPERATING  
POSITION

EAA/LM 4/78

2-1-77

PC-24,122

PART LIST FOR HAV19IS/W41 (DEEP) (GR4) AND (GR5) TOILET BUTTON AND

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HAVJ189IS/W41 (DEEP) (GR4) AND (GR5) PULLCORD

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
A2237	Wirenut	1
A30243	"S" Box (S41 Model Only)	1
AA38043	Cord and Ball Assy. (HAVJ189 Only)	1
A43269-1	Faceplate	1
A43270	Switch Assy. (GR4 Models Only)	1
A43325	Label, UL	1
A43474	Nylon Screw	2
A44255	Switch Assy. (GR5 Models Only)	1
A44256	Faceplate; HAVJ189 (GR5) Only	1
S63216PV3	Nylon Screw	2
S63212PV20	Screw; HAVJ189 (GR5) Only	2

PART LIST FOR HAV19IS/W41-BL (DEEP) (GR4) CODE BLUE BUTTON

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
A2237	Wirenut	1
A30243	"S" Box (S41 Model Only)	1
A43269-1	Faceplate	1
A43270-1	Switch Assy.	1
A43474	Nylon Screw	2
S63216PV3	Screw	2

BL-20,885B



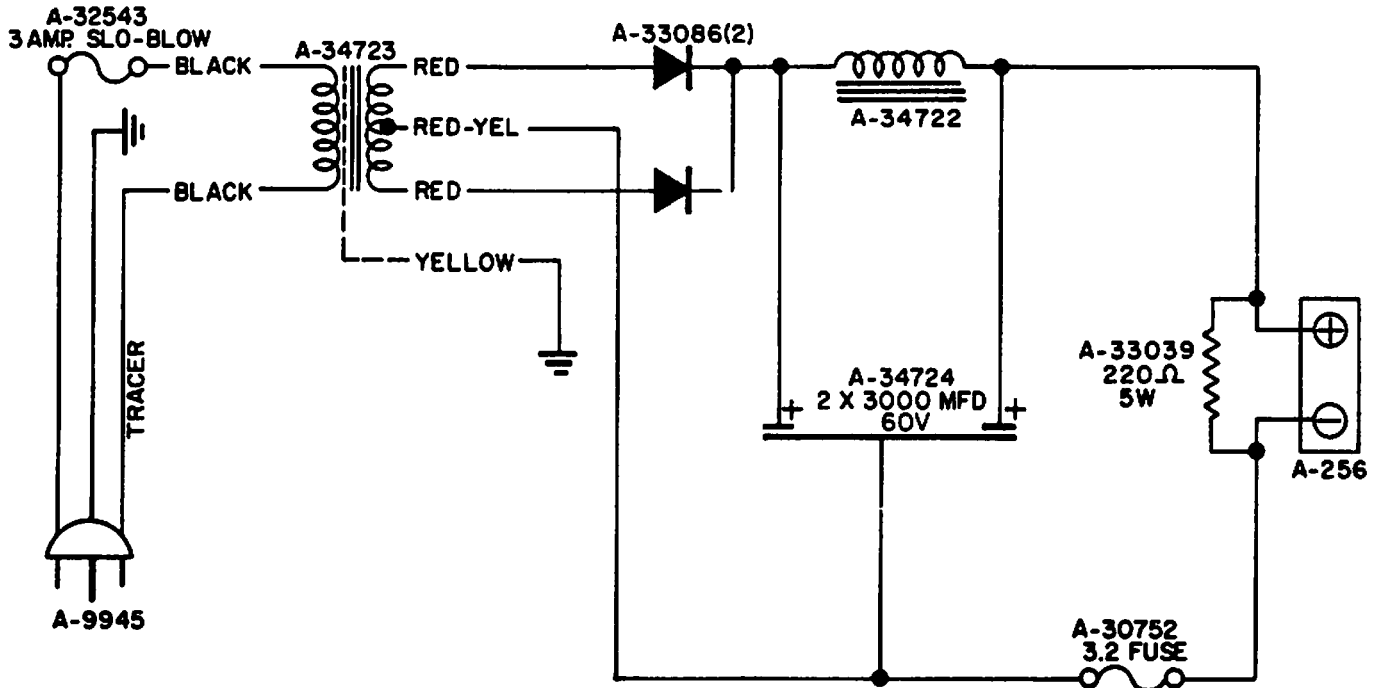
PARTS LIST FOR J3049R1 & R2 S/W31(GR2 & GR3)  
RADIO/TV STEPPER CONTROL

Pg. 28

<u>PART #</u>	<u>DESCRIPTION</u>	<u>GR2</u> <u>QTY.</u>	<u>GR3</u> <u>QTY.</u>
A414	Rivet	R1(2), R2(4)	R1(4), R2(7)
A1644	Resistor, 33 Ohm, 1/2W	R1(1), R2(2)	R1(1), R2(2)
A2714	Tinnerman Nut	4	4
A4228	Terminal Lug	1	1
A4610	Resistor, 47 Ohm, 2W	1	1
AA5172	14 Pin Plug	2	2
AA6754	S31 Box (S Models only)	1	1
AA6864	W31 Box (W Models only)	1	1
A7204	Keps Nut, 6/32	4	6
A7213	Socket, 14 Pin	2	2
A7231	#11 Label	1	-
A7462	Bracket, Socket	-	2
A8123	Tee Nut	4	-
A8523-20	Bushing	4	-
A8523-24	Bushing	-	4
A8524	Shoulder Rivet	8	4
A9387	Transformer	R1(1), R2(2)	R1(1), R2(2)
A30094	Condenser, 500MFD, 50V	1	1
A30245	Condenser, 60MFD, 50V	R1(2), R2(4)	R1(1), R2(2)
A31611	Floating Nut	-	4
A32122-20-J	Faceplate	1	-
A32294	Label	-	1
A33361	Terminal Strip	1	1
A34725	Diode	1	1
A40377	Connector	1	1
A40387	Bracket, Connector	1	1
A40496	Stepper Mech. Chan.	R1(1), R2(2)	R1(1), R2(2)
A40598	Stepper Bracket	1	-
A41695-20	Faceplate	-	1
A41696	Sub-plate	-	1
KL09730-88-03X	Relay	R1(1), R2(2)	R1(1), R2(2)
S5402B1	Screw	R1(2), R2(4)	R1(1), R2(4)
S6326WD20	Screw	4	-
S8326SH2	Screw	R1(1), R2(2)	R1(1), R2(2)
S63220SH1	Screw	4	-
S63228SH1	Screw	-	4
S6Z6SH1	Screw	-	2
S6Z8P020	Screw	4	4

CL-20,374B

# M217(GR4) POWER SUPPLY



## PARTS LIST FOR M217(04) POWER SUPPLY

PART NO.	DESCRIPTION	QUANTITY USED
A4282	8 Terminal Lug	1
A8298	#6Z U Tinnerman	2
A9945	6 ft. SPT2 3 Line Cord	1
A30752	3.2 Amp. Fuse Slo-blow	1
A30753	3.2 Amp. Fuse Holder	1
A32543	Fuse, 3 Amp 125V	1
A33039	Resistor, 220 Ohm 5 Watt	1
A33086	Rectifier, Silicon	2
A34822	3 Amp Choke	1
A34723	3 Amp Power Transformer	1
A33724	Condenser, 2X 3000 MFD, 25V	1

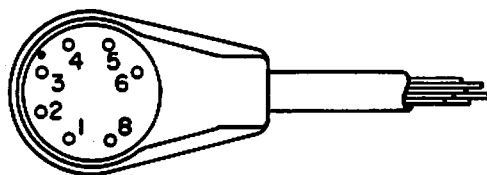
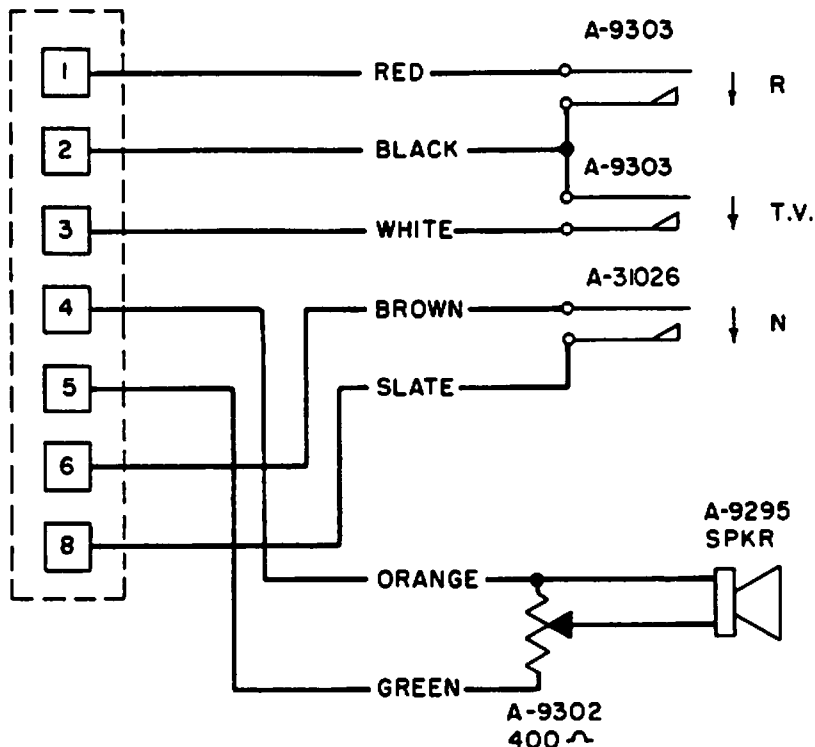
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177	6/14/98	REVISION 176: ADDITION OF THE 6/14/98
178	7/14/98	REVISION 177: ADDITION OF THE 7/14/98
179	8/14/98	REVISION 178: ADDITION OF THE 8/14/98
180	9/14/98	REVISION 179: ADDITION OF THE 9/14/98
181	10/14/98	REVISION 180: ADDITION OF THE 10/14/98
182	11/14/98	REVISION 181: ADDITION OF THE 11/14/98
183	12/14/98	REVISION 182: ADDITION OF THE 12/14/98
184	1/14/99	REVISION 183: ADDITION OF THE 1/14/99
185	2/14/99	REVISION 184: ADDITION OF THE 2/14/99
186	3/14/99	REVISION 185: ADDITION OF THE 3/14/99
187	4/14/99	REVISION 186: ADDITION OF THE 4/14/99
188	5/14/99	REVISION 187: ADDITION OF THE 5/14/99
189	6/14/99	REVISION 188: ADDITION OF THE 6/14/99
190	7/14/99	REVISION 189: ADDITION OF THE 7/14/99
191	8/14/99	REVISION 190: ADDITION OF THE 8/14/99
192	9/14/99	REVISION 191: ADDITION OF THE 9/14/99
193	10/14/99	REVISION 192: ADDITION OF THE 10/14/99
194	11/14/99	REVISION 193: ADDITION OF THE 11/14/99
195	12/14/99	REVISION 194: ADDITION OF THE 12/14/99
196	1/14/00	REVISION 195: ADDITION OF THE 1/14/00
197	2/14/00	REVISION 196: ADDITION OF THE 2/14/00
198	3/14/00	REVISION 197: ADDITION OF THE 3/14/00
199	4/14/00	REVISION 198: ADDITION OF THE 4/14/00
200	5/14/00	REVISION 199: ADDITION OF THE 5/14/00
201	6/14/00	REVISION 200: ADDITION OF THE 6/14/00
202	7/14/00	REVISION 201: ADDITION OF THE 7/14/00
203	8/14/00	REVISION 202: ADDITION OF THE 8/14/00
204	9/14/00	REVISION 203: ADDITION OF THE 9/14/00
205	10/14/00	REVISION 204: ADDITION OF THE 10/14/00
206	11/14/00	REVISION 205: ADDITION OF THE 11/14/00
207	12/14/00	REVISION 206: ADDITION OF THE 12/14/00
208	1/14/01	REVISION 207: ADDITION OF THE 1/14/01
209	2/14/01	REVISION 208: ADDITION OF THE 2/14/01
210	3/14/01	REVISION 209: ADDITION OF THE 3/14/01
211	4/14/01	REVISION 210: ADDITION OF THE 4/14/01
212	5/14/01	REVISION 211: ADDITION OF THE 5/14/01
213	6/14/01	REVISION 212: ADDITION OF THE 6/14/01
214	7/14/01	REVISION 213: ADDITION OF THE 7/14/01
215	8/14/01	REVISION 214: ADDITION OF THE 8/14/01
216	9/14/01	REVISION 215: ADDITION OF THE 9/14/01
217	10/14/01	REVISION 216: ADDITION OF THE 10/14/01
218	11/14/01	REVISION 217: ADDITION OF THE 11/14/01
219	12/14/01	REVISION 218: ADDITION OF THE 12/14/01
220	1/14/02	REVISION 219: ADDITION OF THE 1/14/02
221	2/14/02	REVISION 220: ADDITION OF THE 2/14/02
222	3/14/02	REVISION 221: ADDITION OF THE 3/14/02
223	4/14/02	REVISION 222: ADDITION OF THE 4/14/02
224	5/14/02	REVISION 223: ADDITION OF THE 5/14/02
225	6/14/02	REVISION 224: ADDITION OF THE 6/14/02
226	7/14/02	REVISION 225: ADDITION OF THE 7/14/02
227	8/14/02	REVISION 226: ADDITION OF THE 8/14/02
228	9/14/02	REVISION 227: ADDITION OF THE 9/14/02
229	10/14/02	REVISION 228: ADDITION OF THE 10/14/02
230	11/14/02	REVISION 229: ADDITION OF THE 11/14/02
231	12/14/02	REVISION 230: ADDITION OF THE 12/14/02
232	1/14/03	REVISION 231: ADDITION OF THE 1/14/03
233	2/14/03	REVISION 232: ADDITION OF THE 2/14/03
234	3/14/03	REVISION 233: ADDITION OF THE 3/14/03
235	4/14/03	REVISION 234: ADDITION OF THE 4/14/03
236	5/14/03	REVISION 235: ADDITION OF THE 5/14/03
237	6/14/03	REVISION 236: ADDITION OF THE 6/14/03
238	7/14/03	REVISION 237: ADDITION OF THE 7/14/03
239	8/14/03	REVISION 238: ADDITION OF THE 8/14/03
240	9/14/03	REVISION 239: ADDITION OF THE 9/14/03
241	10/14/03	REVISION 240: ADDITION OF THE 10/14/03
242	11/14/03	REVISION 241: ADDITION OF THE 11/14/03
243	12/14/03	REVISION 242: ADDITION OF THE 12/14/03
244	1/14/04	REVISION 243: ADDITION OF THE 1/14/04
245	2/14/04	REVISION 244: ADDITION OF THE 2/14/04
246	3/14/04	REVISION 245: ADDITION OF THE 3/14/04
247	4/14/04	REVISION 246: ADDITION OF THE 4/14/04
248	5/14/04	REVISION 247: ADDITION OF

# C360-6 (GR3 AND 4) PILLOW SPEAKER

USED WITH HOSPITAL SYSTEM

## AA-9936 PLUG & CABLE



A-9936  
BOTTOM VIEW

A N. -Y	B	A 31026 WAS A9303	2/18/70
	A	A 9936 WAS AA5983	4/10/61
	NO.	REVISION	DATE

PART LIST FOR C360-6 (GR3 & 4) PILLOW SPEAKER

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
A2719	Strain Relief	1
A4040	Pressure Plate	3
A4498	Plastic Bag	1
A4648	Rivet	6
A7055-BK	Actuator Ball	2
A7494	Plastic Bag	1
A9274	Knob	1
A9275	Base	1
A9276	Top Cover	1
A9295	Pillow Speaker	1
A9302	Volume Control	1
A9303	Pileup	2
A9833	Acrylic Ball	1 ((GR3) Only)
A9936	Cable Assembly	1
A30864	Mounting Plate	1
A30867	Bushing	1
A30968	Push-On Nut	1
A30970	Volume Control Plate	1
A31026	Pileup	1
A31484	Speaker Gasket	1
A34759	Insulator	1
A43429	Pillow Speaker Label	1
A43504	Self Illuminating Button	1 ((GR4) Only)
A43666	Clamp, Security	1
S6A6PR20	Screw	2
S6A12PR20	Screw	2

PART LIST FOR AA38098 TOP COVER REPLACEMENT KIT

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
A9276	Top Cover	1
A43504	Self Illuminating Button	1

AL-20,8848



# Technical *Executone* Facts

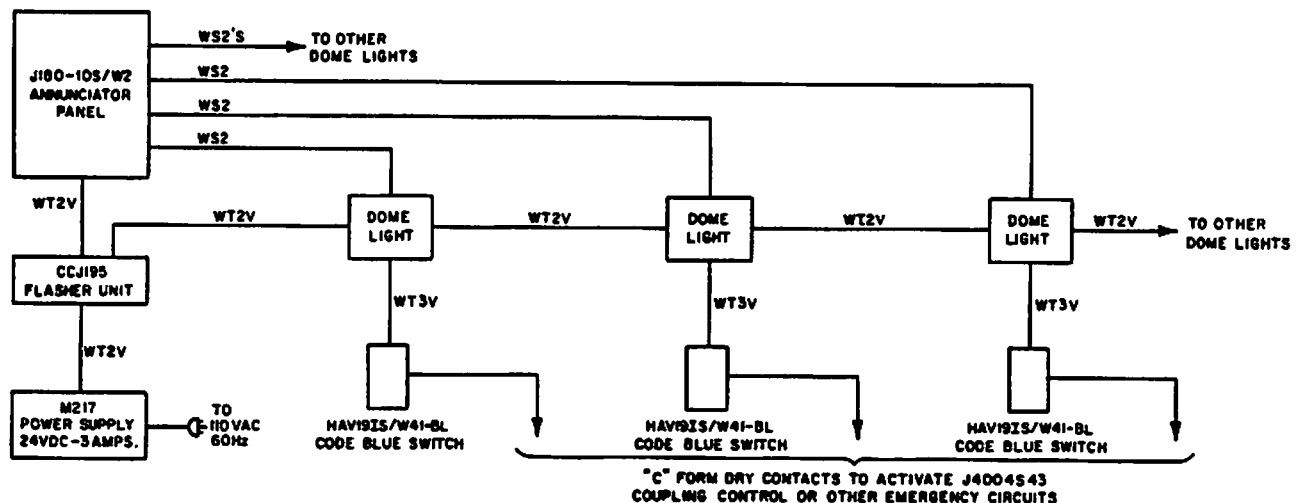
NO. 948A  
March 1, 1979  
For Distributors and Technicians

## CODE BLUE OPERATION

### SYSTEM DESCRIPTION

The Code Blue Operation is based on specifically designated code blue buttons, the associated corridor lamps, annunciator panel, solid state flasher unit and power supply. The code blue buttons are provided with an additional set of "C" form dry contacts for activation of optional features such as Cardiac Team Pagers, Special Cardiac Arrest Annunciators, etc.

Zero current drain during standby condition of system and single system 24VDC power supply facilitates optional use of trickle charger and storage batteries for continuous system operation during an AC power failure. Trickle charger and batteries are to be supplied locally.



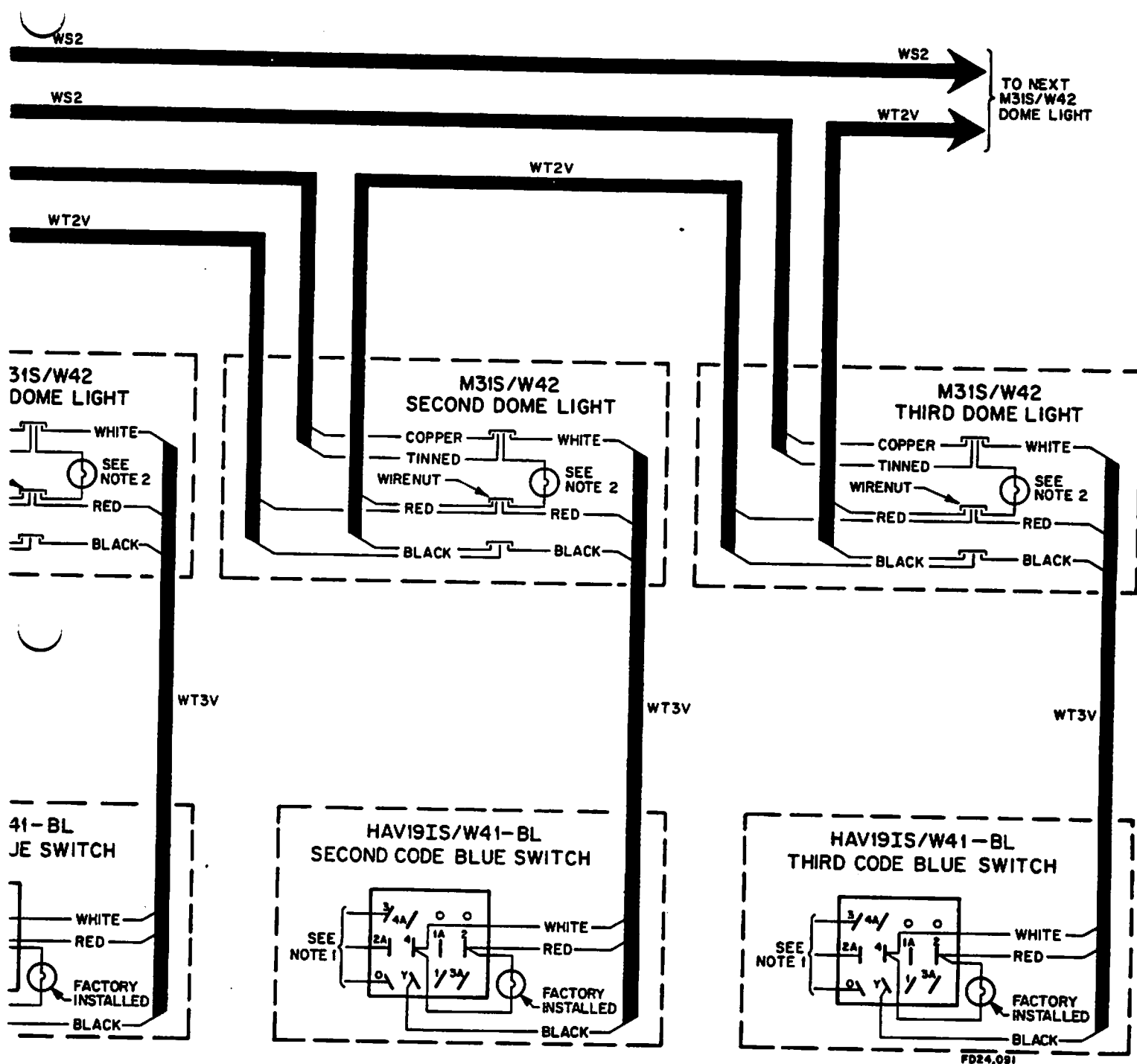
*Typical Layout of Code Blue Operation Components*

File this Tech Facts in your Master Tech Fact File. Write in new heading, Code Blue Operation, on your Pocket Service Guide System, and list this Tech Fact.

EUGENE A. ADAM, Director  
Dept. of Technical Information

1. THE CODE BLUE SWITCH IS PROVIDED WITH ADDITIONAL SET OF "C" FORM DRY CONTACTS FOR THE ACTIVATION OF OPTIONAL CARDIAC TEAM PAGERS, SPECIAL CARDIAC ARREST ANNUNCIATORS, ETC.
2. MODEL M31S/W42 DOME LIGHT IS PROVIDED WITH STANDARD WHITE LAMP. REPLACE WITH COLORED LAMP IN ACCORDANCE WITH HOSPITAL PROCEDURE.





REVISED 2/28/79  
 MODEL HAVI9IS/W41-BL, BLACK WIRE WAS CONNECTED  
 TO TERMINAL 4A, HAS BEEN MOVED TO TERMINAL Y.

## CODE BLUE OPERATION

### SYSTEM OPERATION

The Code Blue Operation is used by Hospital Staff Members to place special emergency calls such as Cardiac Arrest. A Code Blue Call is initiated by the activation of specifically designated blue buttons.

When a Code Blue Call is originated, by depressing the lower button, the following takes place:

- a. Corridor lamp outside patient's room flashes.
- b. An identity lamp flashes at the Annunciator Panel displaying room number of patient.
- c. A pulsing signal is heard at the Annunciator Panel.
- d. Cardiac Team Pagers are automatically triggered (Optional feature) in accordance with hospital procedures.
- e. Appropriate Special Cardiac Arrest Annunciator Lights are illuminated (Optional feature) as required.

A Code Blue Call is cancellable only at the place of origination, by depressing the upper reset button.

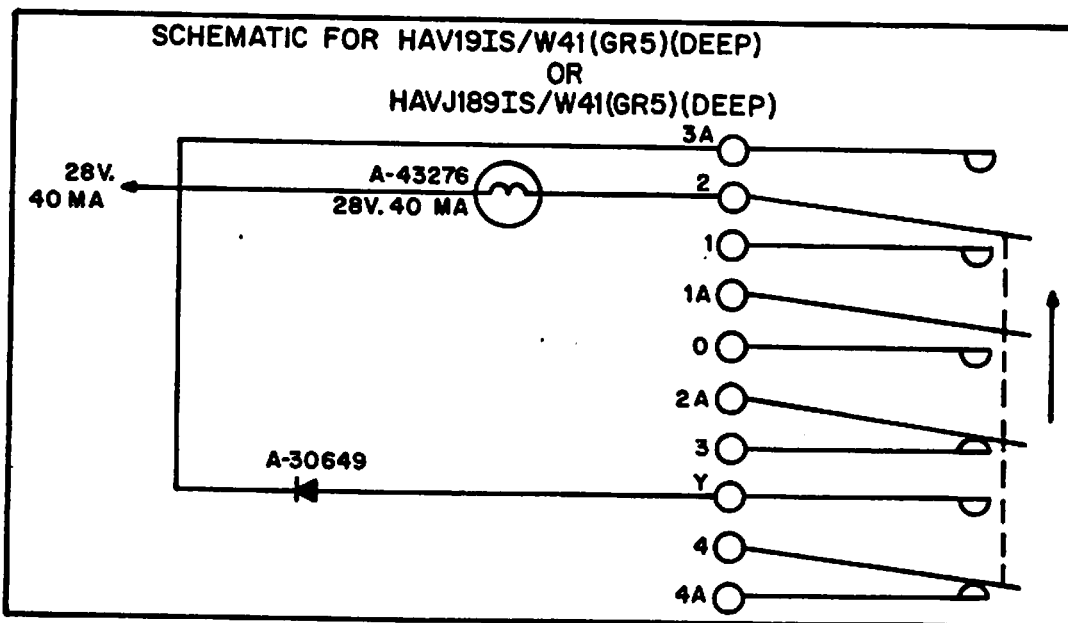
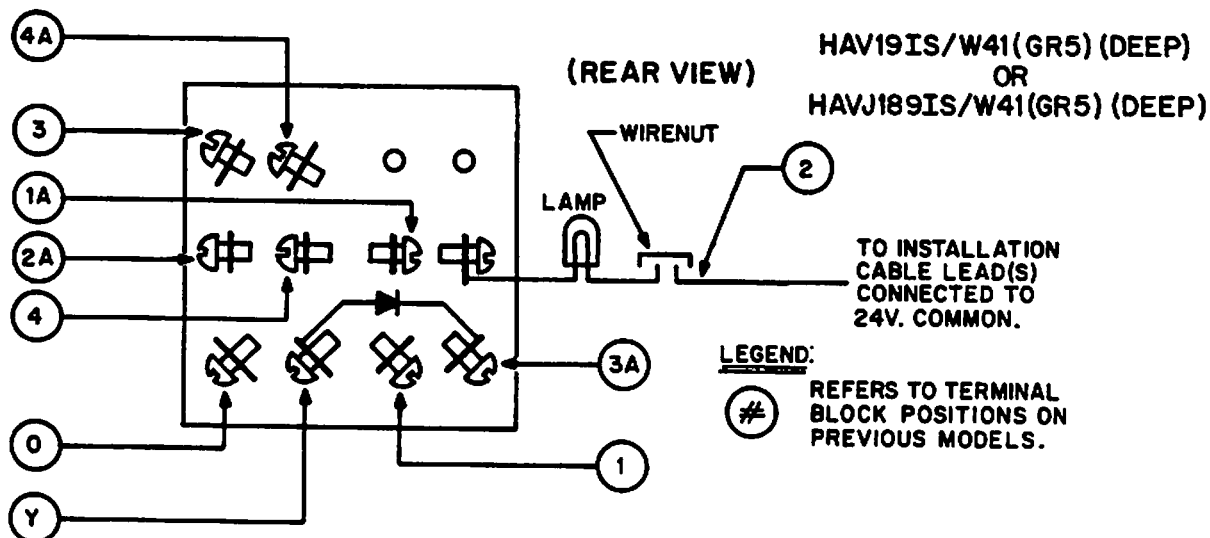
No. 1024

February 16, 1978  
HOSPITAL SERIES

For Distributors And Technical Departments

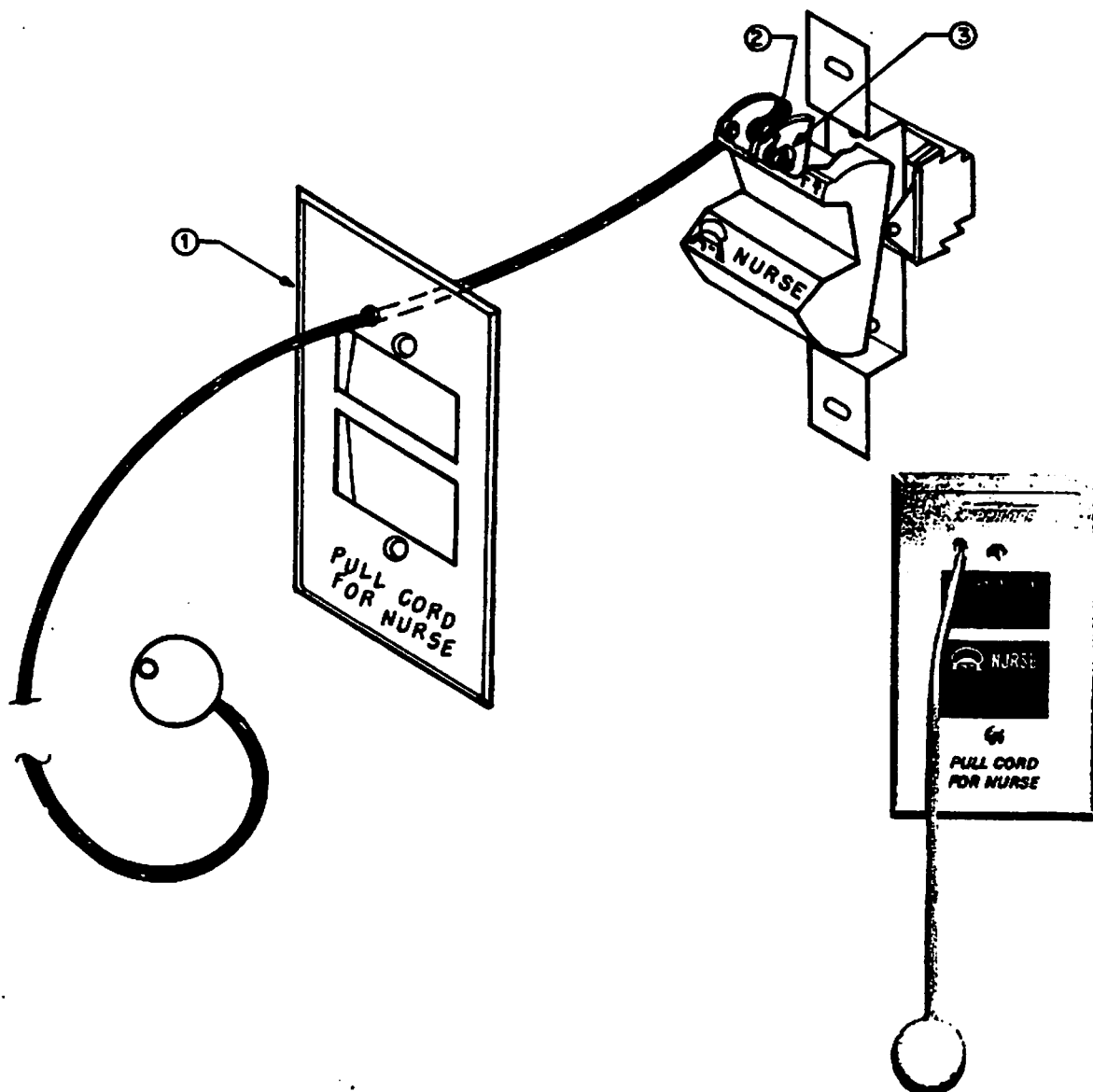
EMERGENCY TOILET BUTTON STATION MODEL HAV19IS/W41 (GR5) DEEP  
AND EMERGENCY PULLCORD STATION MODEL HAVJ189IS/W41 (GR5) DEEP

The new (GR5) Model Emergency Toilet Button and Pullcord stations are now available. Installation terminal points on the (GR5) units are shown below. Installation connections are made to screw terminals and one A2237 wirenut. The wirenut is packed with the unit. When installation connections are completed, mount unit onto backbox, using two screws (supplied). Mount HAV19IS/W41 Toilet Button faceplate onto unit using nylon screws (supplied). DO NOT over-tighten. **CAUTION: DO NOT SUBSTITUTE METAL SCREWS IN PLACE OF THE NYLON SCREWS PROVIDED.**



**NOTE:** FOR INSTALLATION OF HAVJ189IS/W41(GR5) PULLCORD, SEE REVERSE SIDE OF THIS PAGE.

The cord on Model HAVJ189IS/W41 Pullcord must be installed prior to mounting the faceplate. To install cord, proceed as follows: Feed cord through faceplate ①. Using a pair of long nose pliers, bend tip of cord approximately 90 degrees. Insert bent cord tip into hole in switch ②. Pull the cord through hole with long nose pliers until desired cord length is achieved. Tie knot in cord ③. Cut off excess cord, leaving no more than one/eighth (1/8") inch tail maximum. Mount HAVJ189IS/W41 Pullcord faceplate onto unit using nylon screws (supplied). **CAUTION: NO NOT SUBSTITUTE METAL SCREWS IN PLACE OF THE NYLON SCREWS PROVIDED. DO NOT over-tighten.**



HAVJ189IW41(GR5)

File a copy of this Tech Facts in your Nursecom Service Manual, Form 1989; Nursetalk Service Manual, Form 1935A; Installation Instructions TB1479A and TB1460A and your Master Tech Facts File. List this Tech Facts on Record of Changes Pages TB1602 and TB1541A and on your Service Guide under Nursecom and Nursetalk Systems.

EUGENE A. ADAM, Director  
Dept. of Technical Information

# Technical Executone Facts

No. 1041

June 20, 1978  
CARE/COM SYSTEM

For Distributors And Technicians

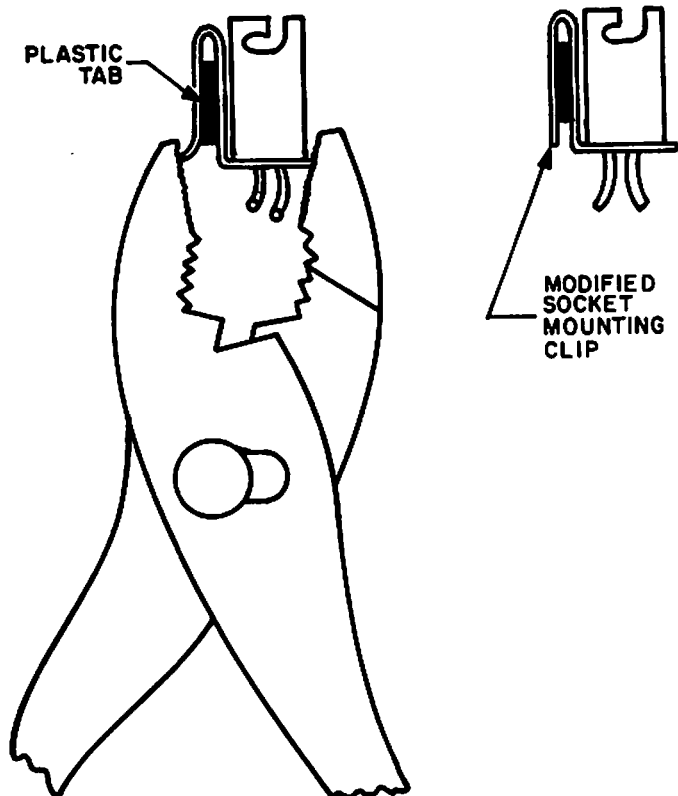
## CC31 TYPE CARE-LIGHT

Field reports reveal instances where the socket mounting clip in the CC31 Type Care-Light has been shorting to the metal subplate. Since the socket mounting clip is in direct contact with the bulb socket frame, where there are two or more sockets grounded in the same system, a short circuit is created through the building ground.

As a result, 24VDC is placed across the protective 10 ohm resistor in the Patient Station, causing the resistor to burn out.

To prevent this from occurring, while the socket is attached to the tab on the faceplate, modify the socket mounting clip with a pair of pliers as shown in the illustration. In addition, make certain that the +24V COPPER lead of the WS2 wire is connected to the center contact of the bulb.

The Factory is in the process of changing the socket used in the CC31 Type Care-Light.



File this Tech Facts in your Master Tech Fact File. List this Tech Facts on your Pocket Service Guide under Care/Com System.

EUGENE A. ADAM, Director  
Dept. of Technical Information

CARE/COM SYSTEM

# Technical *Executone* Facts

No. 1068

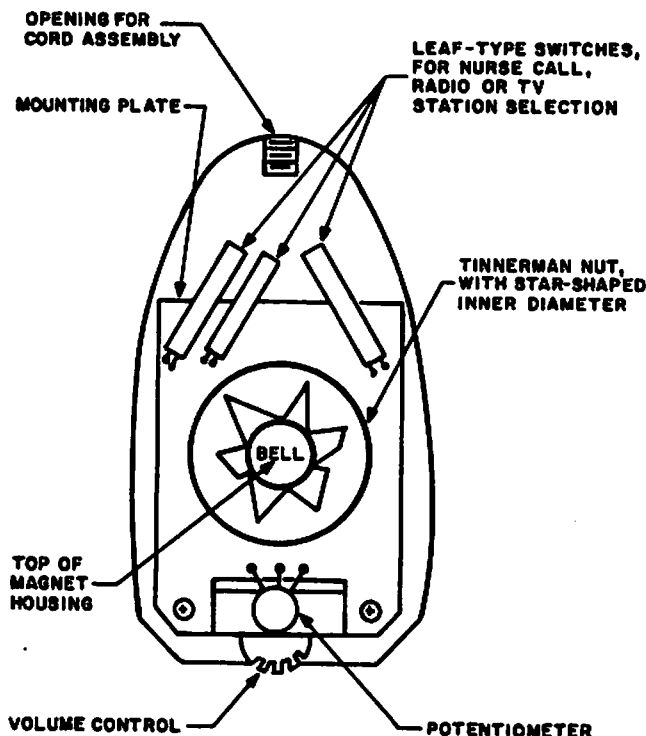
March 26, 1979  
Hospital Systems

For Distributors and Technical Departments

## FIELD REPLACEMENT OF SPEAKER COMPONENT, USED IN C360 PILLOW SPEAKER

### Description Of New Speaker Component Used In Production Runs

The Factory is now using a new A9295 speaker component, with a magnet having a different height from that used in previous production of C360 Pillow Speakers. The prongs on the star-shaped Tinnerman nut (used in previous runs) are flattened at the Factory, to accommodate the new magnet's lower height. The nut is used in Factory production runs only to facilitate assembly of Pillow Speakers. The nut is not required in field replacement procedures.



Top View Of C360 Pillow Speaker,  
With Rear Housing Section Removed

### Recommended Field Replacement Instructions

If the speaker component (A9295) that you use for field replacement is stamped with the name of "BELL" on top of the magnet, you have one of the new type speaker components. You have two choices of procedure in assembling the new type speaker to the Pillow Speaker's mounting plate: (1) discard the Tinnerman nut and don't use it; or (2) flatten the prongs on the Tinnerman nut before pressing it down, over the magnet, to the full depth of the protruding height of the magnet. Method 1 is adequate, in most cases, for a snug fit of the new type magnet against the mounting plate. Method 2 is recommended only if the drilled hole in the mounting plate is distorted or out of roundness. Once you reassemble the rear section of the

molded plastic housing to the front section, the replaced speaker component will seat snugly within the repaired Pillow Speaker.

File this Tech Fact in your Master  
Tech Fact File and with your Hos-  
pital Service Manuals.

EUGENE A. ADAM, Director  
Dept. of Technical Information



# Technical Executone Facts

No. 1127

August 29, 1980  
HOSPITAL SYSTEMS

For Distributors and Technical Departments

## UNDERWRITERS LABS (UL) REQUIREMENTS FOR BACKBOX INSTALLATIONS ON HOSPITAL SIGNALING AND NURSE CALL EQUIPMENT

### Compliance With Underwriters Labs Standard UL1069

The current Underwriters Labs (UL) Standard for Hospital Signaling and Nurse Call Equipment is UL1069, Second Edition, dated March 26, 1979. To comply with this standard, your installation of a system must meet the following regulations:

1. Use only UL-listed backboxes when installing any Hospital Signaling and Nurse Call Equipment.
2. The Executone backbox numbers that appear as part of the basic Model in Care/Com, Nursecom, and Nursetalk System sections of your Factory Price Schedule, Form 2267B, are UL-listed for use with these specific systems.
3. When you mount a unit in a selected backbox, you must provide at least 1/2 inch (12.7 mm) clearance between any uninsulated current-carrying part of the unit and the dead-metal part of the backbox. This 1/2 inch (12.7 mm) clearance applies to all sheet-metal fabricated backboxes.

EUGENE A. ADAM, Director  
Dept. of Technical Information

File a copy of this Tech Facts in 3 places:

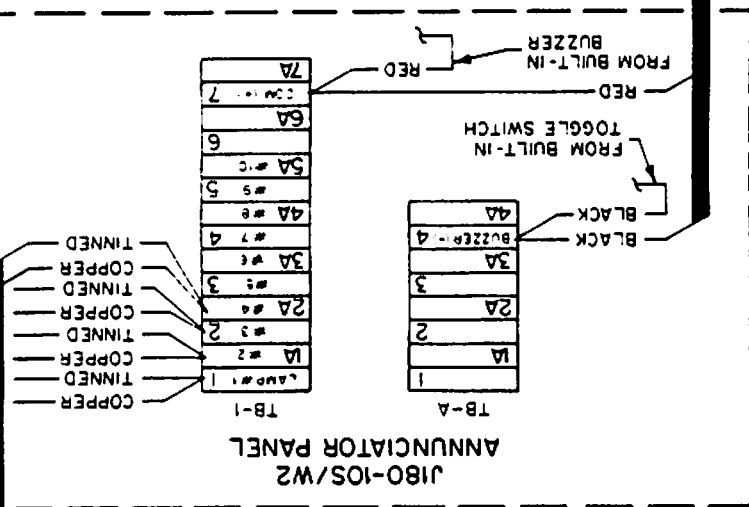
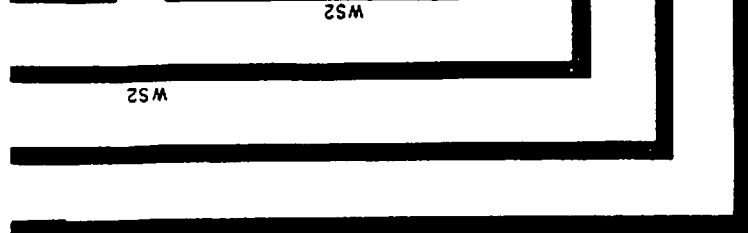
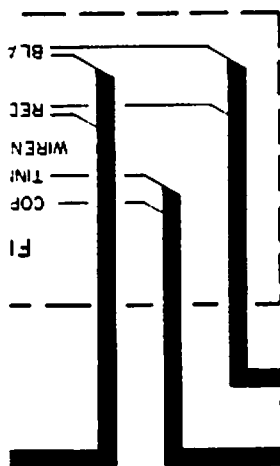
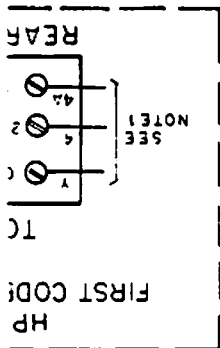
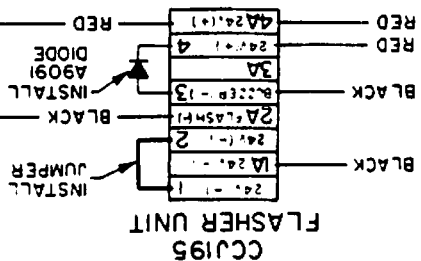
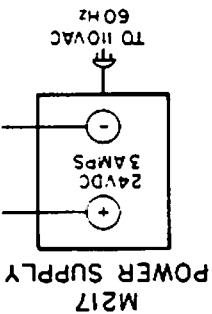
- (1) In your Master Tech Facts File;
- (2) With your Installation Manual (TB1697A for Care/Com), (TB1479A for Nursecom), or (TB1460A for Nursetalk);
- (3) In the Service Manual (Form 2314B, 1989A, or 1935B, as applicable).

Also list this Tech Facts on the Record of Changes Page in the Service Manual.

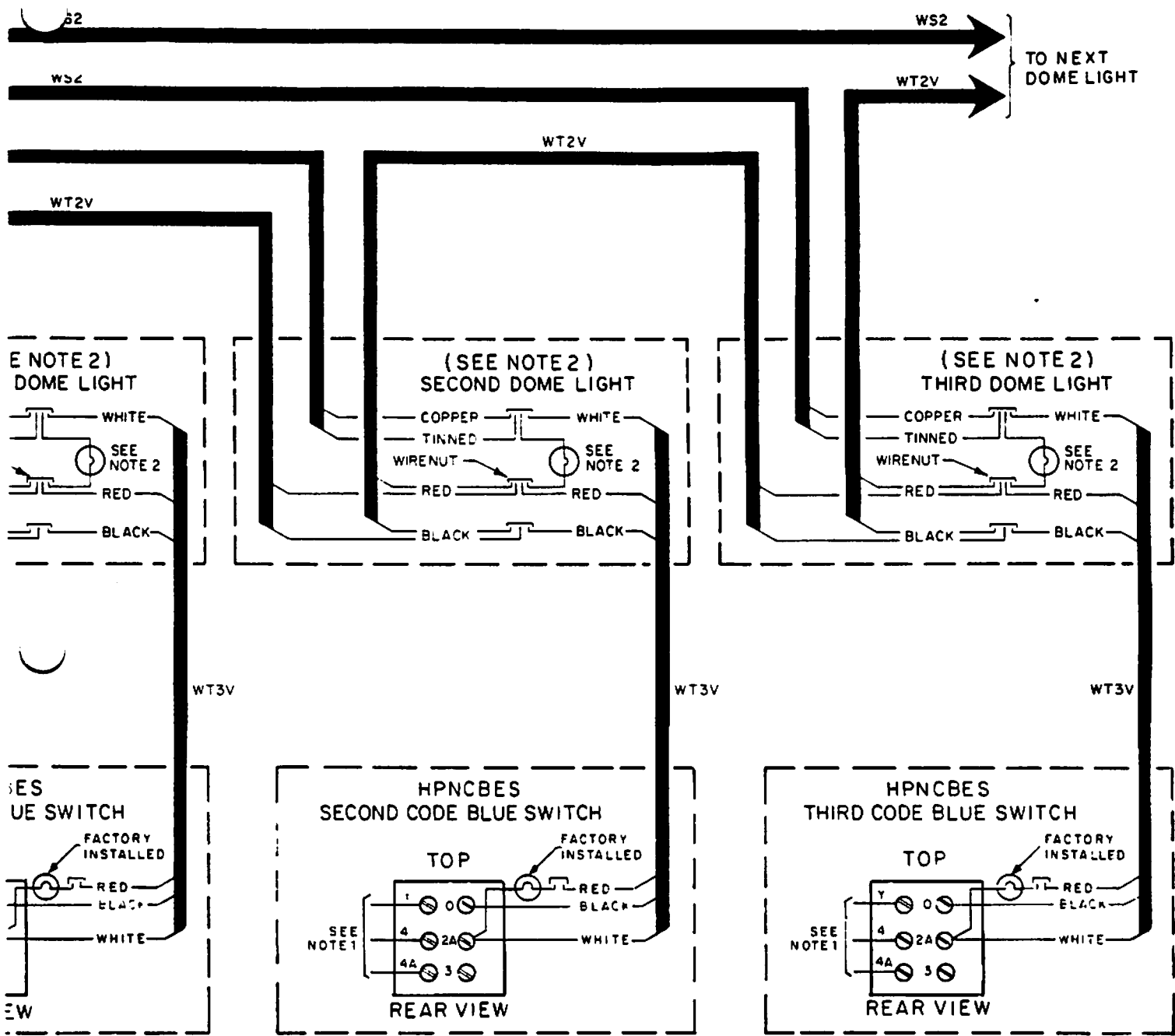
CARE/COM NURSE CALL SYSTEM  
NURSECOM (HAV) HOSPITAL COMMUNICATION SYSTEM  
NURSETALK (NH SERIES) SYSTEM

AL50747

### For Distributors and Technical Departments



**INSTALLER'S NOTES:**  
 1. THE CODE BLUE SWITCH IS PROVIDED WITH ADDITIONAL SET OF "C" FORM DRY CONTACTS FOR THE ACTIVATION OF OPTIONAL CARDIAC TEAM PAGER, SPECIAL CARDIAC ARREST ANNUNCIATORS, ETC.  
 2. THE TYPES OF DOME LAMPS WHICH MAY BE USED ARE:  
 A. M31S/W42 WITH CLEAR OR RED LAMP.  
 B. CC31S/W42 CARE LIGHT.  
 C. M31S/W42 WITH WHITE OR RED LENS.



## SYSTEM OPERATION

The Code Blue Operation is used by Hospital Staff Members to place special emergency calls such as Cardiac Arrest. A code blue call is initiated by the activation of specifically designated blue buttons.

When a code blue call is originated, the following takes place:

- a. Corridor lamp outside patient's room flashes.
- b. An identity lamp flashes at the Annunciator Panel displaying room number of patient.
- c. A pulsing signal is heard at the Annunciator Panel.
- d. Cardiac Team Pagers are automatically triggered (optional feature) in accordance with hospital procedures.
- e. Appropriate Special Cardiac Arrest Annunciator Lights are illuminated (optional feature) as required.

A code blue call is cancellable only at the point of origination by resetting of the blue button.

# Technical Executone® Facts

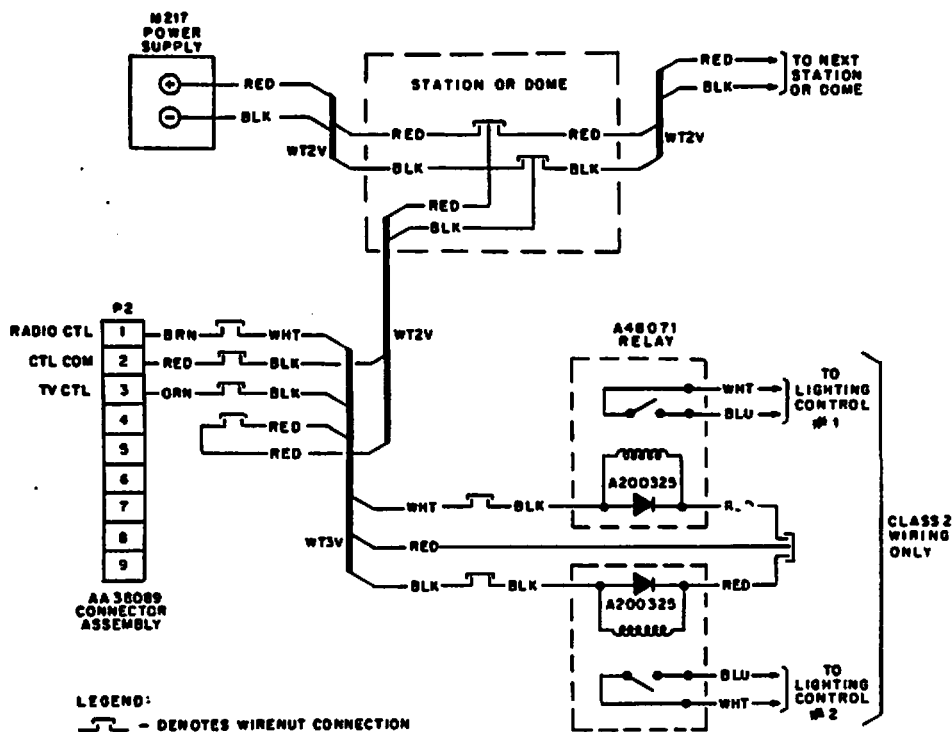
No. 1473

January 16, 1985  
CARE/COM™ NURSE CALL SYSTEM

For Distributors and Technical Departments

## ACTIVATING LIGHTING CONTROLS VIA CARE/COM BEDSIDE PILLOW SPEAKER

Lighting controls can be activated remotely using the bedside pillow speaker. Refer to the installation instructions shown below for lighting control hookup.



The cables and the M217 Power Supply shown are in addition to the standard Care/Com installation. Installation shows single Patient Station. Repeat wiring from station to light controls where individual controls are required. The hookup shown is for one common cable run. One M217 Power Supply is required per 40 Patient Stations. Relays K1 and K2 are Executone Part No. A48071 and diodes shown (1N4002) are Executone Part No. A200325. The diodes are included with the A48071 Relay. Wire connections to Relays K1 and K2 can be made using female push-ons or connections can be soldered directly onto the relay terminals.

File a copy of this Tech Facts in your Master Tech Facts File. File the Tech Facts Header Sheet in the Technical Facts Section of your Care/Com Technical Manual, Form 2314C or later. List on Record of Changes Page.

Dr. John B. Millard  
Vice President - Engineering

# Technical Executone® Facts

No. 1484

April 10, 1985  
CARE/COM® NURSE CALL SYSTEM

For Distributors and Technical Departments

## REVISED SCHEMATIC DIAGRAM OF MODEL CCPCS/W43 PATIENT SIDEGUARD-COMM STATION

Attached to this Technical Fact is your revised schematic diagram for Model CCPCS/W43 Patient Sideguard-Comm Station. The Patient Sideguard-Comm Station is a single patient station specifically designed with the capabilities of providing communications through controls and indicators built-in into the bed sideguards. The sideguard-comm station is connected to the bed's communication control module by the use of a wall receptacle assembly kit and interconnecting cable which are supplied by the bed manufacturer.

In the schematic section of your Care/Com Technical Manual, Form 2314 or later, remove the existing schematic diagram of Model CCPCS/W43 Patient Sideguard-Comm Station on Page 10A and replace the attached revised schematic diagram.

File a copy of this Tech Facts in your Master Tech Facts File. File the Tech Facts Header Sheet in the Technical Facts Section of your Care/Com Technical Manual, Form 2314C. List this Tech Facts on Record of Changes Page.

Dr. John B. Millard  
Vice President - Engineering

# Technical Facts

**CONTEL EXECUTONE**

HOSPITAL SYSTEMS

No. 1564

January 7, 1987

For Distributors and Technical Departments

## REPLACEMENT BUTTON KITS FOR PCU-3 AND PCU-3IC PATIENT CONTROL UNITS

Buttons for PCU-3 and PCU-3IC Patient Control Units are now being manufactured from a newly developed plastic designed specifically for use in hospitals. The durable plastic meets and/or exceeds Hospital Signalling Equipment codes. The improved buttons are now available in the form of an Extended Button Life Replacement Kit, Part No. AA39059. Each kit contains 25 sets of "R", "TV", and "NURSE" buttons. The kits are intended only for Patient Control Units already in hospital sites or in your inventory, and are available at no charge if order is received in Norcross no later than April 15, 1987, after this date the kit will be available at \$65.00 net. All Patient Control Units date stamped 8649 and earlier should have the buttons replaced. All Patient Control Units date stamped 8650 and later will be shipped with the new buttons already installed.

Instructions are provided on the following pages for ordering and installing the new replacement buttons.

### How To Replace the "R", "TV", and "NURSE" Buttons

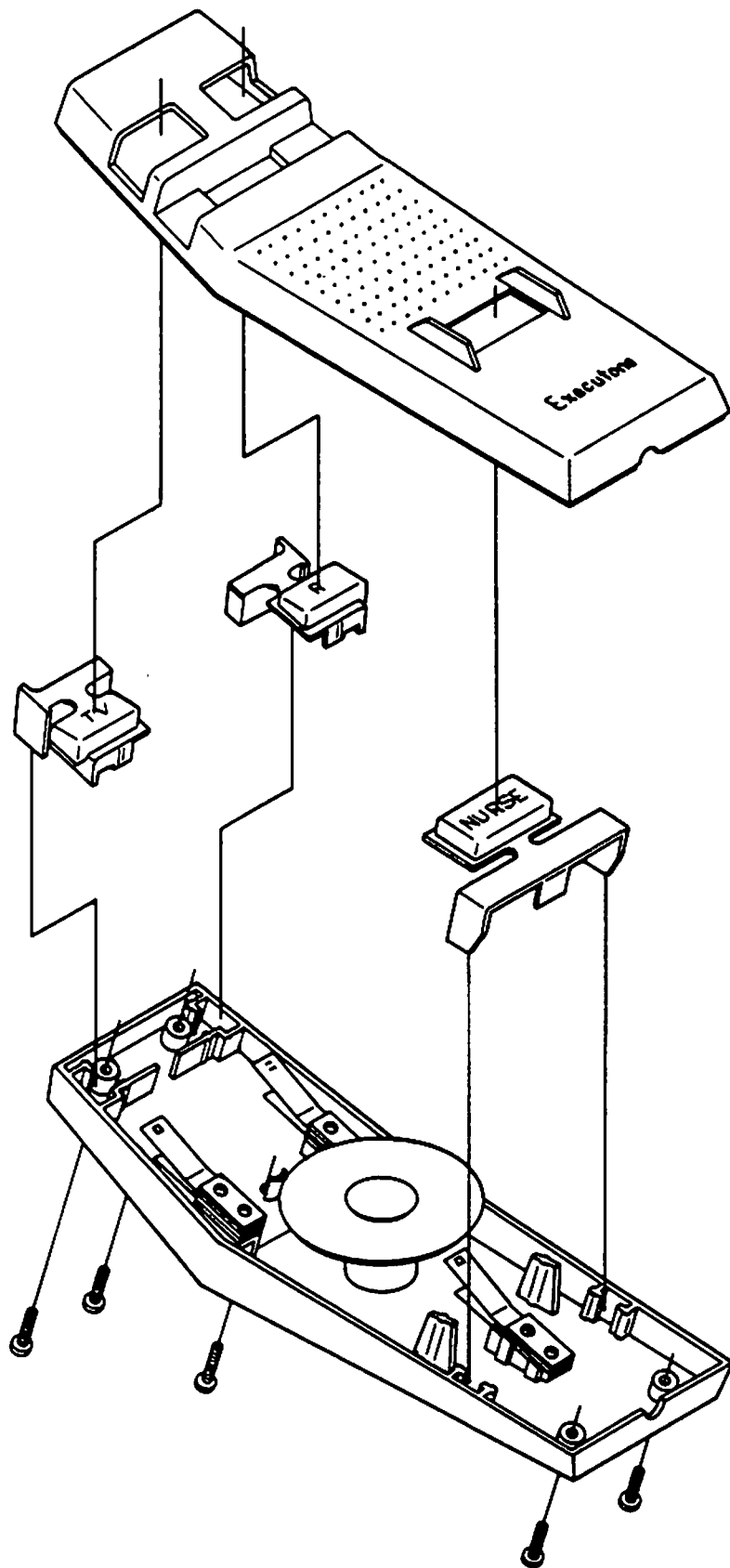
To replace Patient Control Unit's buttons, see Figure 1 (on reverse side), and proceed as follows:

1. Remove the five Phillips screws connecting the top housing of the unit to the bottom, and carefully separate the two halves.
2. The three buttons, labeled "R", "TV", and "NURSE", fit up through the top housing of the unit. Remove the three buttons.
3. Place the new "R" and "TV" buttons into the top housing, up from underneath it.
4. Dress wires around the outer walls of the bottom housing, away from the pileup blades.
5. Place the "NURSE" button into position over the NURSE pileup in the bottom housing.
6. Pick up the top housing, with the "R" and "TV" buttons in place, and hold the housing between the thumb and index finger across the top where the buttons are located. The fingers will keep the buttons from falling out.
7. Line up the top and bottom housings carefully so as not to pinch any wires, and press together gently.
8. Insert the five Phillips screws and tighten.

File a copy of this Tech Facts in your Master Tech Facts File, and in your: FUTURA Technical Manual, Form 3113002B; STATCOM Technical Manual, Form 3043101A and CARE/COM II Technical Manual, Form 3083101. Also list it on the appropriate Record Of Changes pages.

Harry G. Smith, Jr.  
Manager, Field Engineering





**Figure 1 - View of Patient Control Unit and Replacement Buttons**



*Healthcare Systems*

# Technical Facts

TF1645

January 6, 1989

For Distribution

## **Audio Quality Affected By Backboxes**

It has come to our attention that a number of different field conditions prevail that can affect the audio quality of Executone nurse call systems when they are retro fitted to systems of other manufacture or to some of Executone's older systems.

The specific situation in this case is the size of the back box enclosure into which you are installing the patient, staff, or duty stations of a new system. Acoustical feedback can cause distorted sound if the enclosure is larger than that specified for a given product. Therefore, when retro fitting to an older system, or one which has a larger than specified back box, you should consider using a 3 gang standard plastic electric back box to enclose patient, staff, or duty stations within an older or larger area provided. The exception to this are two stations: the HPNPCS/W43W(GR3) and the 3110204 Side-Com Stations which each require a 4 gang box to allow for edge connector clearances.

If needed, further information can be provided by contacting Field Engineering at 800 356-7279.

## **Distribution And Additional Copies Of This Technical Facts**

Please make sure that your operations manger and your Healthcare sales people & technicians all receive a copy of this Technical Facts. It is intended that this information is to be copied for any additional quantity required; therefore, the Technical Facts is not available to order through the Executone Inside Sales/Customer Service Department. Thank you for your cooperation.

Healthcare Product Management  
Technical Literature



# Technical Facts

FUTURA, FUTURA II,  
CARE/COM, CARE/COM II,  
STATCOM

No. 1647  
March 10, 1989  
For All EXECUTONE Distributors

## USING EXECUTONE SPECIFIED WIRE AND CABLE

Many EXECUTONE Healthcare communications systems require the use of Executone designed wire and cable to ensure proper performance and installation. These systems include Futura, Futura II, Care/Com, Care/Com II, and Statcom.

In our efforts to technically support such systems, we have found repeatedly that performance and reliability problems are directly linked to the use of third party and/or incorrect type of wire and cable.

Use only the recommended type of "Approved Executone Brand" wire and cable necessary for each installation. The wire and cable must be ordered through the Executone Inside Sales/Customer Service Department in Scottsdale, Arizona at 1 800 451-1754.

*Executone cannot support or warranty any product/system or its performance if installed using non-approved wire and cable.*

EXECUTONE Information Systems  
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File a copy of this Technical Facts in your Master Technical Facts file and in your Futura Technical Manual, Form 3113002C; your Care/Com II Technical Manual, Form 3083101A; your Care/Com Technical Manual, Form 2314D; and your Statcom Technical Manual, Form 3043101A. Also list it on the Record of Changes pages.

PARTS LIST FOR J7347 COUPLING UNIT FOR NURSE CONTROL STATIONS

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
A2488H	Cover	1
AA5172	Plug, 14 Pin	2
A7204	Nuts, 6-32	4
A7207-R	Base	1
A7342	Spacer, 1/4"	4
A8499-C	Fish Paper	1
AA38170	P.C. Assy.	1
S6F4PV5	Screw	2
S63212WD20	Weld Screw	4

Parts List For AA38170 P.C. Board Assy.

<u>Part #</u>	<u>Description</u>	<u>Qty.</u>	<u>Designation</u>
A7945	Socket, 14 Pin	2	TB1 & TB2
A9917	"U" Fastener, Tinnerman	1	E1
A30245	Capacitor, 60 MFD, 50V.	6	C1 thru C6
A30649	Diode	12	CR1 thru CR12
A44135	P.C. Board	1	
KW-09651-9903X	Relay	6	K1 thru K6
S6325B1	Screw	1	

AL-20,855B

PARTS LIST FOR CCJ195 FLASHER ASSY.

PART #	DESCRIPTION	QTY.
A414	Rivet	2
A427	Flat Washers	4
A2488-H	Cover	1
AA5698	Plug, 8 Pin	1
A7204	Keq Nut, 6/32	8
A7207-J	Base	1
A8499-A	Fishpaper	1
AA38086	P.C. Board Assy.	1
SGF6PV5	Screw	2
S6326WD20	Weld Screw	4

Parts List For AA38086 P.C. Board

Part #	Description	QTY.	Designation
A1646	Resistor, 68 Ohm	1	R9
A1647	Resistor, 100 Ohm	2	R7,R16
A1651	Resistor, 470 Ohm	1	R2
A1652	Resistor, 680 Ohm	3	R12,R13,R5
A1653	Resistor, 1K Ohm	2	R6,R15
A1659	Resistor, 10K Ohm	1	R14
A1663	Resistor, 68K Ohm	1	R1
A1676	Resistor, 330 Ohm, 1W.	1	R8
A7204	Keq Nut, 6/32	6	
A7342	Bushing	2	
A7785	Capacitor, 25 MFD, 20V.	1	C1
A8524	Rivet	2	
A8693	Mica Washer	2	
A9008	Resistor, 150 Ohm, 7W.	1	R11
A9013	Resistor, 470 Ohm, 2W.	1	R10
A30649	Diode	2	CR1,CR2
A32073	Capacitor, 10 MFD, 50V.	1	C7
A32074	Capacitor, 100 MFD, 50V.	1	C6
A32373	Capacitor, 200 MFD, 3V.	2	C4,C5
A33055	Z Diode, 14V.	1	Z1
A33662	Power Transistor	3	Q2,Q3,Q4
A33710	Transistor, Blue	1	Q1
A33746	Transistor, Yellow	1	Q5
A34416	Socket, 8 Pin	1	
A34694	Heat Sink	1	
A40312	Capacitor, 6.8 MFD, 35V.	2	C2,C3
A42642	I.C., NE-555	1	R3
A42811	V.C., 4 MEG Ohm	1	KE1,KE2
A43564	Reed Relay	2	
A43630	V.C., 150K Ohm	1	R4
A43654	P.C. Board	1	
S6328SH2	Screw	6	



QTY.	DESCRIPTION	QTY.
1	TRANSISTOR, BLUE	1
1	TRANSISTOR, YELLOW	1
1	SOCKET, 8 PIN	1
1	HEAT SINK	1
2	CAPACITOR, 6.8 MFD, 35V.	2
1	I.C., NE-555	1
1	V.C., 4 MEG OHM	1
2	REED RELAY	2
1	V.C., 150K OHM	1
1	P.C. BOARD	1
6	SCREW	6





PARTS LIST FOR CC720-740-760 AHD (GR2) CONTROL STATIONS

PART #	DESCRIPTION	QUANTITY		
		CC720	CC740	CC760
A267	Terminal Strip	1	1	1
A1789	Cable Clasp	4	4	4
A2092	Lockwasher #4	2	6	6
A2171	Nut, 5/40	6	6	6
A2354	Cable Clamp, 3/8	1	2	3
A4755-N	Grille Cloth	1	1	1
MA5698	Plug, 8 Pin	1	1	1
A7213-A	Socket, 8 Pin	1	1	1
A11819	Cable Tie	1	1	4
A33361	Multi-Terminal Strip	2	2	2
MA38105	Handset Assy.	1	1	1
MA38106 (GR2)	Multi-Switch Assy.	1	1	6
MA38107 (GR2)	Amp. & Ctl. Assy.	2	4	1
MA38108 (GR2)	Inter-Multi-Switch	1	1	6
Harness Assy.				
MA38111-1 (GR2)	2 Bank Multi-Switch	1	2	3
Harness Assy.				
MA38130	Ctl. Board Harness Assy.	1	1	1
MA38151	Cable Cover Assy.	1	1	2
A40030	Window-Lamp	2	2	2
A43649	Housing	1	1	1
A43693-1	Housing Cover	1	1	1
A43693-2	Housing Cover	1	1	1
A43693-3	Housing Cover	1	1	1
A43694	Knob, V.C.	1	1	1
A43695	Link	1	1	12
A43698	Spacer Plate	2	2	2
A43715	Chassis	1	1	1
A43719	Bumper Pad	4	4	4
A43783	Identification Tab	1	1	1
HS200664	Screw	6	6	6
S4404SH2	Screw	2	4	6
S518H1S3	Screw	4	4	4
S624SH1	Screw	19	23	27
S6324PV20	Screw	4	4	4
S6325SH2	Screw	8	12	16

Parts List For MA35748 Handset Lead Weight

Part #	Description	Qty.
A33487	Foam Cushion	1
A33521	Lead Weight	1

Parts List For MA38105 Handset Assy.

Part #	Description	Qty.
A2345	Trimount	2
A2719	Cable Retainer	1
A3223-NH	Handset Cradle	1
A32378-D	Handset Mtg. Bkt.	1
MA35748	Lead Weight Assy.	1
MA38114	Handset Network Assy.	1
A42881-NH	Handset	1
S624SH1	Screw	2
S6324PF5	Screw	1
S6324PV20	Screw	2

Parts List For MA38106 (GR2) Multi-Switch Assy.

Part #	Description	Qty.
A30649	Diode	1
A33910	Lamp (28V)	12
A43655-A	P.C. Board	1
A43660	Multi-Switch	1

Parts List For MA38107 (GR2) Amplifier & Control Assy.

Part #	Description	Qty.
A424	Nut	1
A430	Lockwasher	1
A2102	Washer	1
A2843	Timerman "U" Type	4
A4697	Lamp	2
A7987	Spring	1
A34128-BLU	Push Button, Blue	1
MA38099 (GR2)	Amp. & Ctl. P.C. Board Assy.	1
A41957	Standoff	4
A43699-A	Bracket, Component	1
A43712	Speaker	1
A43735	Actuator, Pileup	1
S626SH1	Screw	6
S6323SH2	Screw	8

Parts List For MA38108 (GR2) Inter-Multi-Switch Harness Assy.

Part #	Description	Qty.
A31819	Tie Strip	2
A43758	Connector (9)	1

Parts List For MA38111-1 (GR2) Two Bank Multi-Switch Harness Assy.

Part #	Description	Qty.
A42843	Receptacle (50 Pin)	1
A43716	Strain Relief	1 Pair
A43757	Connector	2

Parts List For MA38114 Handset Network Assy.

Part #	Description	Qty.
A1647	Resistor, 100 Ohm	1
A1652	Resistor, 680 Ohm	1
A1653	Resistor, 1K Ohm	1
A1656	Resistor, 3300 Ohm	1
A4357	Lug	5
A7101-4B	Tubing	14"
A9532	Condenser, 100 MFD, 15V.	2
A9787	Condenser, .47 MFD, 12V.	1
A9872	Resistor, 10 Ohm, 1W.	1
A32190	Contact	7
A3232	Plunger	1
A32305	Connector	1
A32366	P.C. Board	1
A32827	Plunger Guide Assy.	1
A32828	Bushing	2
A32829	Pileup	1
S54016SH1S4	Screw	2

Parts List For MA38130 Control Board Harness Assy.

Part #	Description	Qty.
A7213-A	Socket, 8 Pin	1
A31819	Tie Strip	2
A32190	Contact	12
A43708	Connector (12)	1

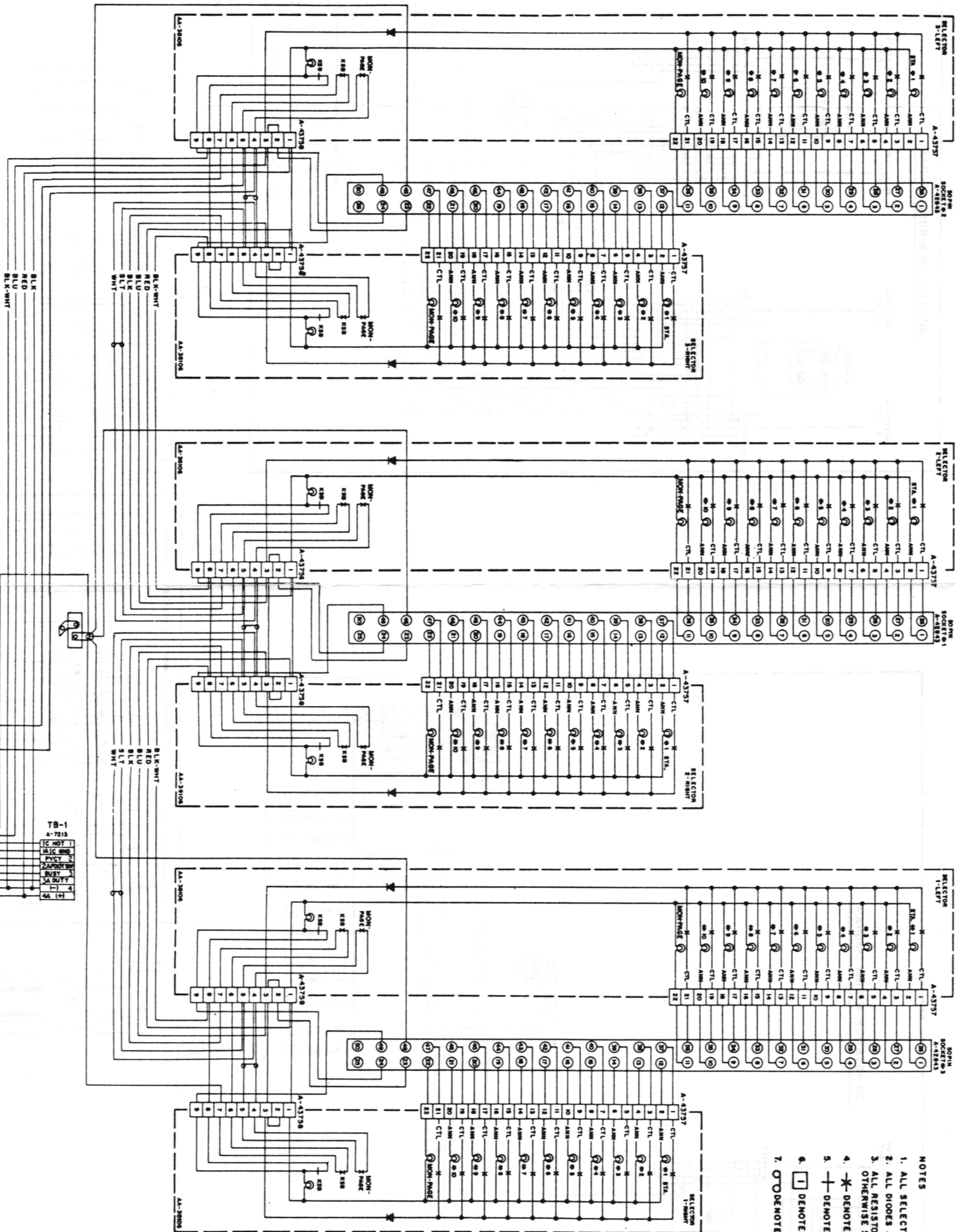
Parts List For MA38151 Cable Cover Assy.

Part #	Description	Qty.
A8278-J	Pad	1
A43724	Cable Cover	1

Parts List For MA38099 (GR2) Amplifier And Control P.C. Board Assy.

Part #	Description	Qty.	Designation
A1583	Resistor, 47K Ohm	2	R5,R6
A1644	Resistor, 33 Ohm	1	R17
A1645	Resistor, 47 Ohm	1	R22
A1647	Resistor, 100 Ohm	1	R21
A1648	Resistor, 150 Ohm	1	R10
A1650	Resistor, 330 Ohm	1	R8
A1653	Resistor, 1K Ohm	1	R4
A1655	Resistor, 2.2K Ohm	1	R16
A1656	Resistor, 3.3K Ohm	1	R12
A1657	Resistor, 4.7K Ohm	1	R13
A1658	Resistor, 6.8K Ohm	1	R7
A1659	Resistor, 10K Ohm	3	R15,R18,R19
A1660	Resistor, 15K Ohm	1	R11
A1668	Resistor, 470K Ohm	1	R14
A4040	Pressure Plate	1	
A4754	Lug	2	
A7127	Square Nut	2	
A7402	Resistor, 2.2 Ohm, 2W.	1	R20
A7530-14	Bushing	2	
A7785	Capacitor, 25 MFD, 20V.	1	C10
A7787	Capacitor, 0.1 MFD, 200V.	3	C12,C17,C19
A7950	Capacitor, .01 MFD, 500V.	2	C6,C7
A7951	Capacitor, .02 MFD, 500V.	1	C5
A8030	Capacitor, 50 MFD, 25V.	1	C11
A9262	Capacitor, 2 MFD, 50V.	1	C4
A30100	Resistor, Var. 100 Ohm	2	R1,R3
A30649	Diode	13	CRI thru CRI3
A30671	Capacitor, 250 MFD, 30V.	1	C18
A32073	Capacitor, 10 MFD, 50V.	2	C2,C3
A33043	Transformer	1	T1
A33214	Pile-Up Assy.	1	
A33710	Transistor	2	Q1,Q2
A33746	Transistor	1	Q3
A34039	Capacitor, 1,000 MFD, 35V.	1	C1
A40312	Capacitor, 6.8 MFD, 35V.	3	C8,C9,C16
A43564	Reed Relay	1	KF
A43631	Lamp Socket	2	
A43640	Integrated Circuit	1	IC2
A43657	P.C. Board	1	
A43713	Resistor, Var. 200 Ohm	1	R2
A43714	Heat Sink	1	
A43729	Resistor, 20 Ohm, 2W.	1	R9
CP200414	Capacitor, .05 MFD, 25V.	3	C13,C14,C15
IC201861	Integrated Circuit	1	IC1
KW-09651-99-03K	Printact Relay	1	KS
KX-16050-99-03X	Printact Relay	1	KS
S54022SH2	Screw	2	





- NOTES
1. ALL SELECTOR LAMPS ARE PT. NO. A-33910 40MA/28V
  2. ALL DIODES ARE PT. NO. A-30648.
  3. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED
  4. \* DENOTES NORMALLY OPEN CONTACT
  5. + DENOTES NORMALLY CLOSED CONTACT
  6. [ ] DENOTES P.C. BOARD EDGE CONNECTOR NUMBER
  7. O/D DENOTES TWISTED PAIR OF WIRES

PARTS LIST FOR CC720-740-760AHD CONTROL STATIONS

PART #	DESCRIPTION	QUANTITY			Part #	Description	Qty.	Designation
		CC720	CC740	CC760				
A414	Rivet	2	2	2	A1583	Resistor, 47K Ohm	2	F5,R6
A416	Washer	2	2	2	A1644	Resistor, 33 Ohm	1	R17
A1789	Cable Clasp	3	3	3	A1647	Resistor, 100 Ohm	1	R21
A2354	Cable Clamp, 3/8	1	2	3	A1648	Resistor, 150 Ohm	1	R10
A4697	Lamp	2	2	2	A1650	Resistor, 330 Ohm	1	F4
A4755-N	Grille Cloth	1	1	1	A1653	Resistor, 1K Ohm	1	R16
AA5698	Plug, 8 Pin	1	1	1	A1655	Resistor, 2.2K Ohm	1	R12
A7213-A	Socket, 8 Pin	1	1	1	A1656	Resistor, 3.3K Ohm	1	R13
AA524	Rivet	2	2	2	A1657	Resistor, 4.7K Ohm	1	R7
AA38105	Handset Assy.	1	1	1	A1658	Resistor, 6.8K Ohm	1	R15
AA38106	Multi-Switch Assy.	2	4	6	A1659	Resistor, 10K Ohm	1	R11
AA38107	Amp. & Ctl. Sect.	1	1	1	A1670	Resistor, 15K Ohm	1	R14
AA38108	2 Bank Multi-Switch with Amp. & Ctl.	1	1	1	A4479	Resistor, 1 MEG Ohm	2	R18,R19
AA38109	4 Bank Multi-Switch with Amp. & Ctl.	1	-	-	A4697	Lamp	2	
AA38110	Sect. Cable Assy.	-	1	-	A4742	Resistor, 2.2 Ohm, 2W	1	R20
AA38111-1	2 Bank Multi-Switch Cable Assy.	1	1	1	A7402	Capacitor, 25 MFD, 20V.	1	C10
AA38111-2	2 Bank Multi-Switch Cable Assy.	-	1	1	A7785	Capacitor, 1 KFD, 200V.	3	C12,C17,C19
AA38111-3	2 Bank Multi-Switch Cable Assy.	-	1	1	A7787	Capacitor, .01 MFD, 500V.	2	C6,C7
AA0030	Window-Lamp	2	2	2	A7950	Capacitor, .02 MFD, 500V.	1	C5
A43649	Housing	1	1	1	A8030	Capacitor, 50 MFD, 25V.	1	C11
A43693-1	Cover	1	1	1	A9262	Capacitor, 2 MFD, 50V.	1	C4
A43694	Knob-V.C.	1	1	1	A30100	Resistor, VAR. 100 Ohm	2	R1,R3
A43695	Link	4	8	12	A30649	Diode	13	CRI thru CRI3
A43698	Spacer Plate	2	2	2	A30671	Capacitor, 250 MFD, 30V.	1	C18
A43715	Chassis	1	1	1	A32073	Capacitor, 10 MFD, 50V.	2	C2,C3
A43719	Bumper Pad	4	4	4	A33043	Transformer	1	T1
A43724	Cable Cover	1	1	1	A33710	Transistor	2	Q1,Q2
A32065	Corprene Washer	3	3	3	A33746	Transistor	1	Q3
S4404SH2	Screw	2	4	6	A34039	Capacitor, 1,000 MFD, 35V.	1	C1
S4406FR20	Screw	4	4	4	AA38100	Pile-Up Assy.	1	
S623SH1	Screw	2	4	4	AA40312	Capacitor, 6.8 MFD, 35V.	3	C8,C9,C16
S624SH1	Screw	14	18	22	A43564	Relay-Reed	1	"K"
S6324PV20	Screw	4	4	4	A43631	Lamp Socket	2	
S6325SH2	Screw	8	12	16	A43640	I.C.	1	

Parts List For AA38105 Handset Assembly

Part #	Description	Qty.
A2345	Trimount	2
A2719	Cable Retainer	1
A32223-WH	Handset Cradle	1
A32378-D	Handset Mtg. Bkt.	1
AA35748	Lead Weight Assy.	1
AA38114	Handset Network Assy.	1
AA2881-WH	Handset	1
S6324PF5	Screw	1
S6324PV20	Screw	2
S624SH1	Screw	2

Parts List For AA38106 Multi-Switch Assy.

Part #	Description	Qty.
A30649	Diode	1
A33910	Lamp (28V)	12
A43655	P.C. Board	1
A43660	Multi-Switch	1

Parts List For AA38107 Amplifier & Control Section Assy.

Part #	Description	Qty.
A2843	Timerman "U" Type	4
A7987	Spring	1
A34128-BL	Push Button	1
AA38099	Amp. & Ctl. Sect. P.C. Board Assy.	1
AA1957	Standoff	4
AA3699	Bracket, Component	1
AA3712	Speaker	1
S626SH1	Screw	4
S6323SH2	Screw	8

Parts List For AA38108 Cable Assy. - 2 Bank Multi-Switch

Part #	Description	Qty.
A32305	Connector	2
A43708	Connector	1

Parts List For AA38109 Cable Assembly - 4 Bank Multi-Switch With Amplifier and Control Section

Part #	Description	Qty.
A32305	Connector	2
AA38108	2 Bank, Multi-Switch & Amplifier Cable Assembly	1

Parts List For AA38110 Cable Assembly - 6 Bank Multi-Switch With Amplifier and Control Section

Part #	Description	Qty.
A32305	Connector	2
AA38109	4 Bank Multi-Switch & Amplifier Cable Assembly	1

Parts List For AA38111-1 Cable Assembly - 2 Bank Multi-Switch

Part #	Description	Qty.
A32189	Connector	2
A42843	Receptacle (50 Pin)	1
A43716	Strain Relief	1

Parts List For AA38111-2 Cable Assembly - 2 Bank Multi-Switch

Part #	Description	Qty.
A32189	Connector (22)	2
A42843	Receptacle (50 Pin)	1
A43716	Strain Relief	1

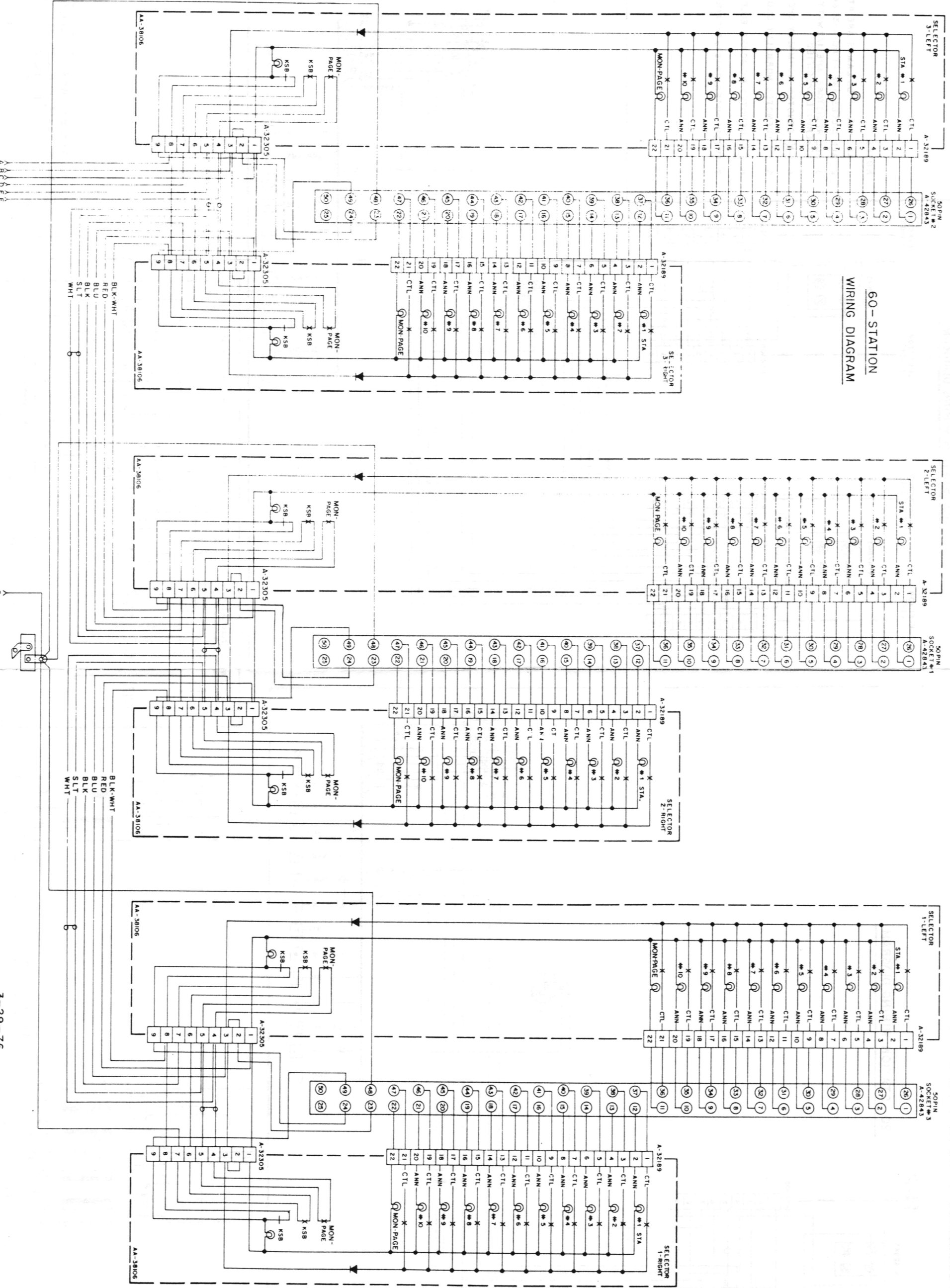
Parts List For AA38111-3 Cable Assembly - 2 Bank Multi-Switch

Part #	Description	Qty.
A32189	Connector (22)	2
A42843	Receptacle (50 Pin)	1
A43716	Strain Relief	1

Parts List For AA38114 Handset Network Assembly

Part #	Description	Qty.
A1647	Resistor, 100 Ohm	1
A1652	Resistor, 680 Ohm	1
A1653	Resistor, 1K Ohm	1
A1656	Resistor, 3300 Ohm	1
A4357	Lug	5
A7101-4B	Tubing	14"
A9532	Condenser, 100 MFD, 15V	2
A9787	Condenser, .47 MFD, 12V	1
A9872	Resistor 10 Ohm, 1W	1
A32190	Contact	7
A32232	Plunger	1
A32366	Connector	1
A32827	P.C. Board	1
A32828	Plunger Guide Assy.	1
A32829	Bushing	2
S54016SH1S4	Pileup	1
	Screw	2

60-STATION  
WIRING DIAGRAM





PARTS LIST FOR CC611LS/W43 (GR1) AND (GR2) DUTY STATION

PART #	DESCRIPTION	QTY.
A30018	"S" Box ("S" Model Only)	1
AA38096	Faceplate Assy. ((GR1) Model Only)	1
AA38096 (GR2)	Faceplate Assy. ((GR2) Model Only)	1
AA38097	P.C. Board Assy. ((GR1) Model Only)	1
AA38097 (GR2 & 3)	P.C. Board Assy. ((GR2 & 3) Model Only)	1
A43662	Pilot Lamp, #85	3
A44343	Screw Kit	1
S6F6PV5	Screw	3

Parts List For AA38096 (GR1) And (GR2) Faceplate Assy.

Part #	Description	Qty.
A31484	Speaker Gasket	1
A42215	Retaining Ring ((GR1) Model Only)	4
A43610	Faceplate ((GR1) Model Only)	1
A43612-WH-A	Lens Cap White, "Patient"	1
A43618-R-A	Button Actuator Red, "Cancel"	1
A43618-WH-A	Button Actuator White, "Call"	1
A43665	Speaker, 2-1/4"	1
A43781	Light Shield	1
A44142	Faceplate ((GR2) Model Only)	1

Parts List For AA38097 (GR1, 2, & 3) P.C. Board Assy.

Part #	Description	Quantity			Designation
		(GR1)	(GR2)	(GR3)	
A1583	Resistor, 47K Ohm	2	2	2	R7,R8
A1647	Resistor, 100 Ohm	1	1	1	R5
A1650	Resistor, 330 Ohm	1	1	1	R4
A1651	Resistor, 470 Ohm	1	1	1	R1
A1653	Resistor, 1K Ohm	1	1	1	R6
A1658	Resistor, 6.8K Ohm	1	1	1	R9
A1659	Resistor, 10K Ohm	1	1	1	R2
A7785	Capacitor, 25 MFD, 20V.	1	1	1	C10
A7950	Capacitor, .01 MFD	2	2	2	C6,C7
A7951	Capacitor, .02 MFD	1	1	1	C5
A8608	Capacitor, .22 MFD, 250V.	1	1	1	C2
A8680	Capacitor, .22 MFD, 3V.	1	1	1	C3
A9262	Capacitor, 2 MFD, 50V.	2	2	2	C1,C4
A30649	Diode	4	4	4	CR1,CR2,CR3,CR4
A34113	S.C.R.	1	1	1	Q1
A40112	Resistor, 10 Ohm, 2W.	1	1	1	R3
A40312	Capacitor, 6.8 MFD, 35V.	2	2	2	C8,C9
A43632	Eyelet	4			
A43651	P.C. Board	1	1		
A43681	P.L. Socket	3	3	3	PAT., L, I
AA38229	N.C. Pileup Assy.	1	1	1	
AA38230	N.O. Pileup Assy.	1	1	1	
A43706	Relay	1	1	1	L
A44258	P.C. Board			1	
IC201861	I.C., NE556V.	1	1	1	IC1
A44263	Eyelet		4	4	

PARTS LIST FOR CC4211LS/W43 (GR1) AND (GR2) BEDSIDE STATION

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
A7101-3/8-B	Tubing	2-1/2"
A30018	"S" Box ("S" Model Only)	1
AA38092	Faceplate Assy. ((GR1) Model Only)	1
AA38092 (GR2)	Faceplate Assy. ((GR2) Model Only)	1
AA38093	P.C. Board Assy. ((GR1) Model Only)	1
AA38093 (GR2 & 3)	P.C. Board Assy. ((GR2) Model Only)	1
A43662	Pilot Lamp, #85	3
A44343	Screw Kit	1
S6F6PV5	Screw	3

Parts List For AA38092 (GR1) And (GR2) Faceplate Assy.

<u>Part #</u>	<u>Description</u>	<u>Qty.</u>
A31484	Speaker Gasket	1
A42215	Retaining Ring ((GR1) Model Only)	4
A43610-2	Faceplate ((GR1) Model Only)	1
A43612-WH	Lens Cap, White	2
A43618-R-A	Button Actuator Red, "Cancel"	1
A43665	Speaker, 2-1/4"	1
A43781	Light Shield	2
A44142-2	Faceplate ((GR2) Model Only)	1

Parts List For AA38093 (GR1, 2, & 3) P.C. Board Assy.

<u>Part #</u>	<u>Description</u>	<u>Quantity</u>			<u>Designation</u>
		<u>(GR1)</u>	<u>(GR2)</u>	<u>(GR3)</u>	
A1651	Resistor, 470 Ohm	2	2	2	R2,R5
A1656	Resistor, 3.3K Ohm	2	2	2	R4,R7
A1659	Resistor, 10K Ohm	2	2	2	R3,R6
A8608	Capacitor, .22 MFD, 250V.	2	2	2	C2,C4
A8680	Capacitor, .22 MFD, 3V.	2	2	2	C3,C5
A9262	Capacitor, 2 MFD. 50V.	1	1	1	C1
A30649	Diode	7	7	7	CR1 thru CR7
A34113	S.C.R.	2	2	2	S1,S2
AA38229	N.C. Pileup Assy.		1	1	
A40112	Resistor, 10 Ohm, 2W.	1	1	1	R1
A43564	Reed Relay	1	1	1	L
A43619	Blade, N.C.	1			
A43620	Blade, Cover	1			
A43632	Eyelet	2			
A43652	P.C. Board	1	1		
A43681	P.L. Socket	3	3	3	I1,I2,L
A44259	P.C. Board			1	
A44263	Eyelet	2	2	2	

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
A7101-3/8-B	Tubing	2-1/2"
A30018	"S" Box ("S" Model Only)	1
AA38094	Faceplate Assy. ((GR1) Model only)	1
AA38094 (GR2)	Faceplate Assy. ((GR2) Model only)	1
AA38095	P.C. Board Assy. ((GR1) Model only)	1
AA38095 (GR2, & 3)	P.C. Board Assy. ((GR2) Model only)	1
A43662	Pilot Lamp, #85	2
A44343	Screw Kit	1
S6F6PV5	Screw	3

Parts List For AA38094 (GR1) And (GR2) Faceplate Assy.

<u>Part #</u>	<u>Description</u>	<u>Qty.</u>
A31484	Speaker Gasket	1
A42215	Retaining Ring ((GR1) Model only)	4
A43610-1	Faceplate ((GR1) Model Only)	1
A43612-WH	Lens Cap, White	2
A43618-R-A	Button Actuator Red, "Cancel"	1
A43665	Speaker, 2-1/4"	1
A43781	Light Shield	2
A44142-1	Faceplate ((GR2) Model Only)	1

Parts List For AA38095 (GR1, 2, & 3) P.C. Board Assy.

<u>Part #</u>	<u>Description</u>	<u>Quantity</u>			<u>Designation</u>
		<u>(GR1)</u>	<u>(GR2)</u>	<u>(GR3)</u>	
A1651	Resistor, 470 Ohm	1	1	1	R2
A1659	Resistor, 10K Ohm	1	1	1	R3
A8608	Capacitor, .22 MFD, 250V.	1	1	1	C2
A8680	Capacitor, .22 MFD, 3V.	1	1	1	C3
A9262	Capacitor, 2 MFD, 50V.	1	1	1	C1
A30649	Diode	3	3	3	CR5,CR6,CR7
A34113	S.C.R.	1	1	1	S1
A40112	Resistor, 10 Ohm, 2W.	1	1	1	R1
AA38229	N.C. Pileup Assy.	1	1	1	
A43564	Reed Relay	1	1	1	L
A43619	Blade, N.C.	1			
A43620	Blade, Cover	1			
A43632	Eyelet	2			
A43652	P.C. Board	1	1		
A43681	P.L. Socket	2	2	2	I,L
A44259	P.C. Board			1	
AA44263	Eyelet		2	2	

PARTS LIST FOR CC411IS/W42 (GR1) AND (GR2) BEDSIDE STATION

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
A441	Ground Lug	1
A8275	"S" Box ("S" Model Only)	1
AA38090	Faceplate Assy. ((GR1) Model Only)	1
AA38090 (GR2)	Faceplate Assy. ((GR2) Model Only)	1
AA38091	P.C. Board Assy. ((GR1) Model Only)	1
AA38091 (GR2 & 3)	P.C. Board Assy. ((GR2) Model Only)	1
A43662	Pilot Lamp, #85	2
A44343	Screw Kit	1
S6F6PV5	Screw	2

Parts List For AA38090 (GR1) And (GR2) Faceplate Assy.

<u>Part #</u>	<u>Description</u>	<u>Qty.</u>
A31484	Speaker Gasket	1
A42215	Retaining Ring ((GR1) Model Only)	4
A43609	Faceplate ((GR1) Model Only)	1
A43612-WH	Lens Cap, White	1
A43618-R-A	Button Actuator Red, "Cancel"	1
A43665	Speaker, 2-1/4"	1
A43781	Light Shield	1
A44141	Faceplate ((GR2) Model Only)	1

Parts List For AA38091 (GR1, 2 & 3) P.C. Board Assy.

<u>Part #</u>	<u>Description</u>	<u>Quantity</u>			<u>Designation</u>
		<u>(GR1)</u>	<u>(GR2)</u>	<u>(GR3)</u>	
A1651	Resistor, 470 Ohm	1	1	1	R2
A1659	Resistor, 10K Ohm	1	1	1	R3
A8608	Capacitor, .22 MFD, 250V.	1	1	1	C2
A8680	Capacitor, .22 MFD, 3V.	1	1	1	C3
A8684	Retaining Washer	1	1	1	C1
A9262	Capacitor, 2 MFD, 50V.	1	1	1	C1
A30649	Diode	3	3	3	CR1,CR2,CR3
A32533-3-A	Fiber Sleeve	1	1	1	
A34113	S.C.R.	1	1	1	
AA38250	N.C. Pileup Assy.	1	1	1	
A40112	Resistor, 10 Ohm, 2W.	1	1	1	R1
A43564	Reed Relay	1	1	1	L
A43619	Blade, N.C.	1	1	1	
A43620	Blade, Cover	1	1	1	
A43632	Eyelet	2	2	2	
A43653-A	P.C. Board	1	1	1	
A43653	P.C. Board	1	1	1	
A43681	P.L. Socket	2	2	2	I,L
A44260	P.C. Board	1	1	1	
A44263	Eyelet	2	2	2	
A44344	Standoff, Hex, 6-32	1	1	1	
A44345	Standoff, Thd, 4-40	1	1	1	
S8Z8H1	Screw	1	1	1	
S6325SH2	Screw 6-32	1	1	1	
S4404SH2	Screw 4-40	1	1	1	

<u>PART #</u>	<u>DESCRIPTION</u>	<u>QTY.</u>
A30018	"S" Box ("S" Model Only)	1
AA38087	Faceplate Assy. ((GR1) Model Only)	1
AA38087 (GR2)	Faceplate Assy. ((GR2) Model Only)	1
AA38088	P.C. Board Assy. ((GR1) Model Only)	1
AA38088 (GR2 & 3)	P.C. Board Assy. ((GR2) Model Only)	1
A43662	Pilot Lamp, #85	2
A44343	Screw Kit	1
SGF6PV5	Screw	3

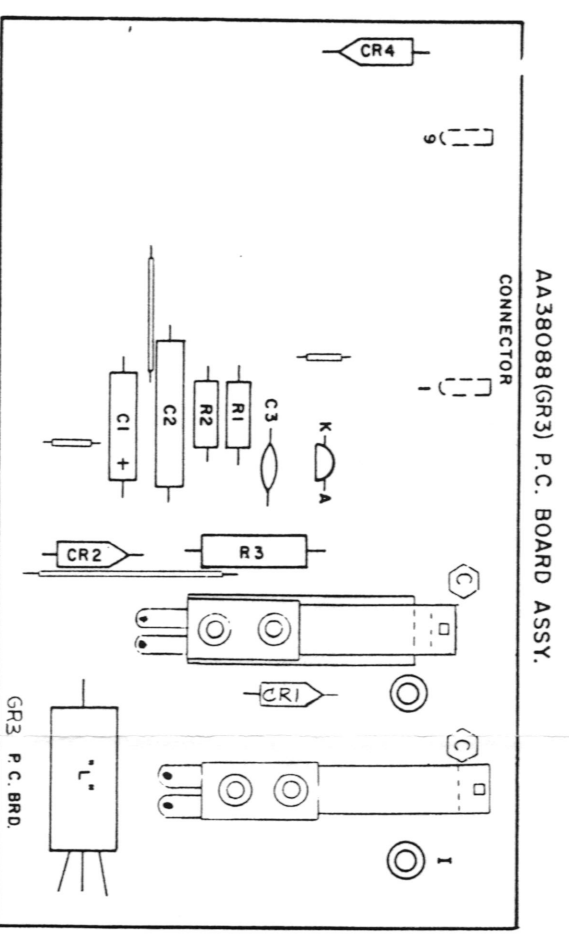
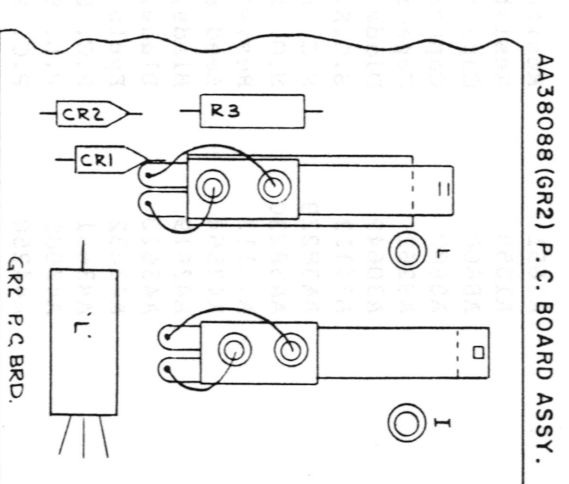
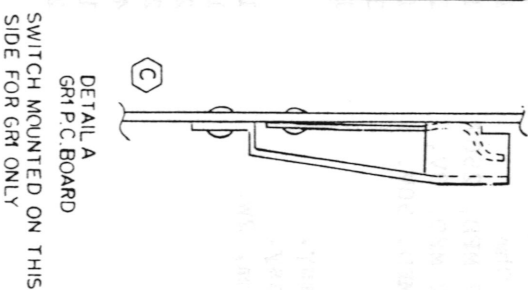
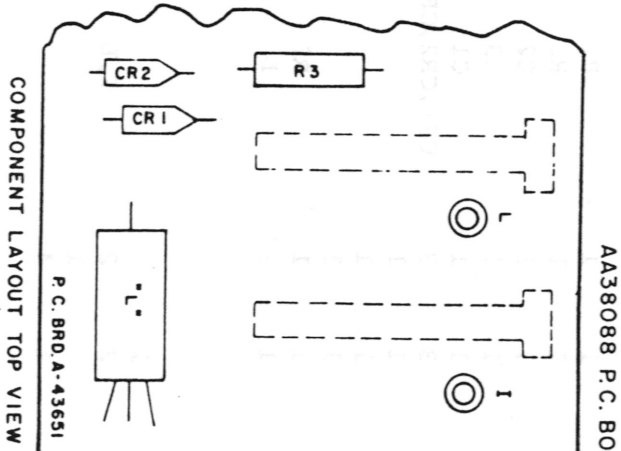
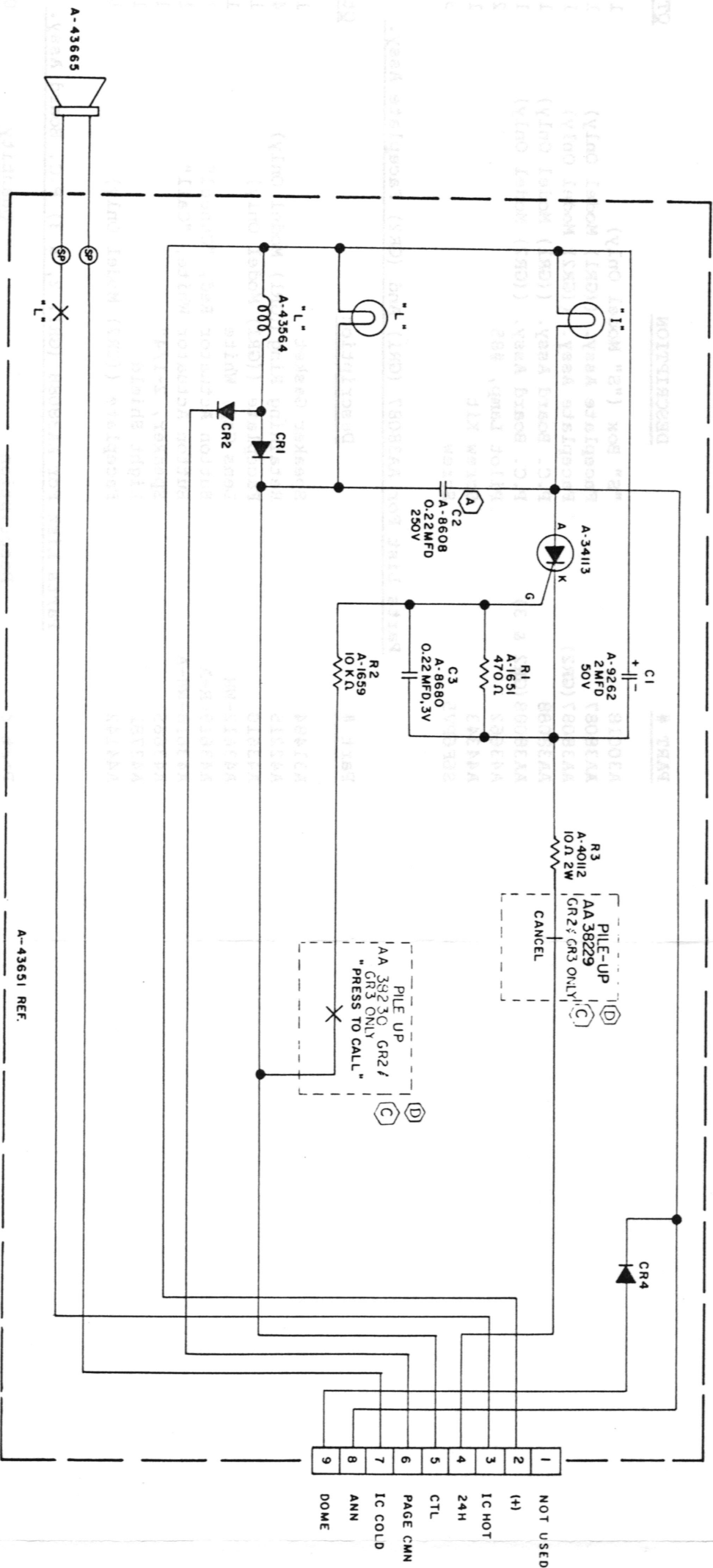
Parts List For AA38087 (GR1) And (GR2) Faceplate Assy.

<u>Part #</u>	<u>Description</u>	<u>QTY.</u>
A31484	Speaker Gasket	1
A42215	Retaining Ring ((GR1) Model Only)	4
A43610	Faceplate ((GR1) Model Only)	1
A43612-WH	Lens Cap, White	1
A43618-R-A	Button Actuator Red, "Cancel"	1
A43618-WH-A	Button Actuator White, "Call"	1
A43665	Speaker, 2-1/4"	1
A43781	Light Shield	1
A44142	Faceplate ((GR2) Model Only)	1

Parts List For AA38088 (GR1, 2, & 3) P.C. Board Assy.

<u>Part #</u>	<u>Description</u>	<u>Quantity</u>			<u>Designation</u>
		<u>(GR1)</u>	<u>(GR2)</u>	<u>(GR3)</u>	
A1651	Resistor, 470 Ohm	1	1	1	R1
A1659	Resistor, 10K Ohm	1	1	1	R2
A8608	Capacitor, .22 MFD, 250V	1	1	1	C2
A8680	Capacitor, .22 MFD, 3V.	1	1	1	C3
A9262	Capacitor, 2 MFD, 50V.	1	1	1	C1
A30649	Diode	3	3	3	CRL,CR2,CR4
A34113	S.C.R.	1	1	1	
AA38229	N.C. Pileup Assy.	1	1	1	
AA38230	N.O. Pileup Assy.	1	1	1	
A40112	Resistor 10 Ohm, 2W.	1	1	1	R3
A43564	Reed Relay	1	1	1	L
A43619	Blade, N.C.	2			
A43620	Blade, Cover	2			
A43632	Eyelet	4			
A43651	P.C. Board	1	1		
A43681	P.L. Socket	2	2	2	I,L
A44258	P.C. Board			1	
A44263	Eyelet		4	4	





AA38089 PLUG ASSY. (PROVIDED SEPARATELY)

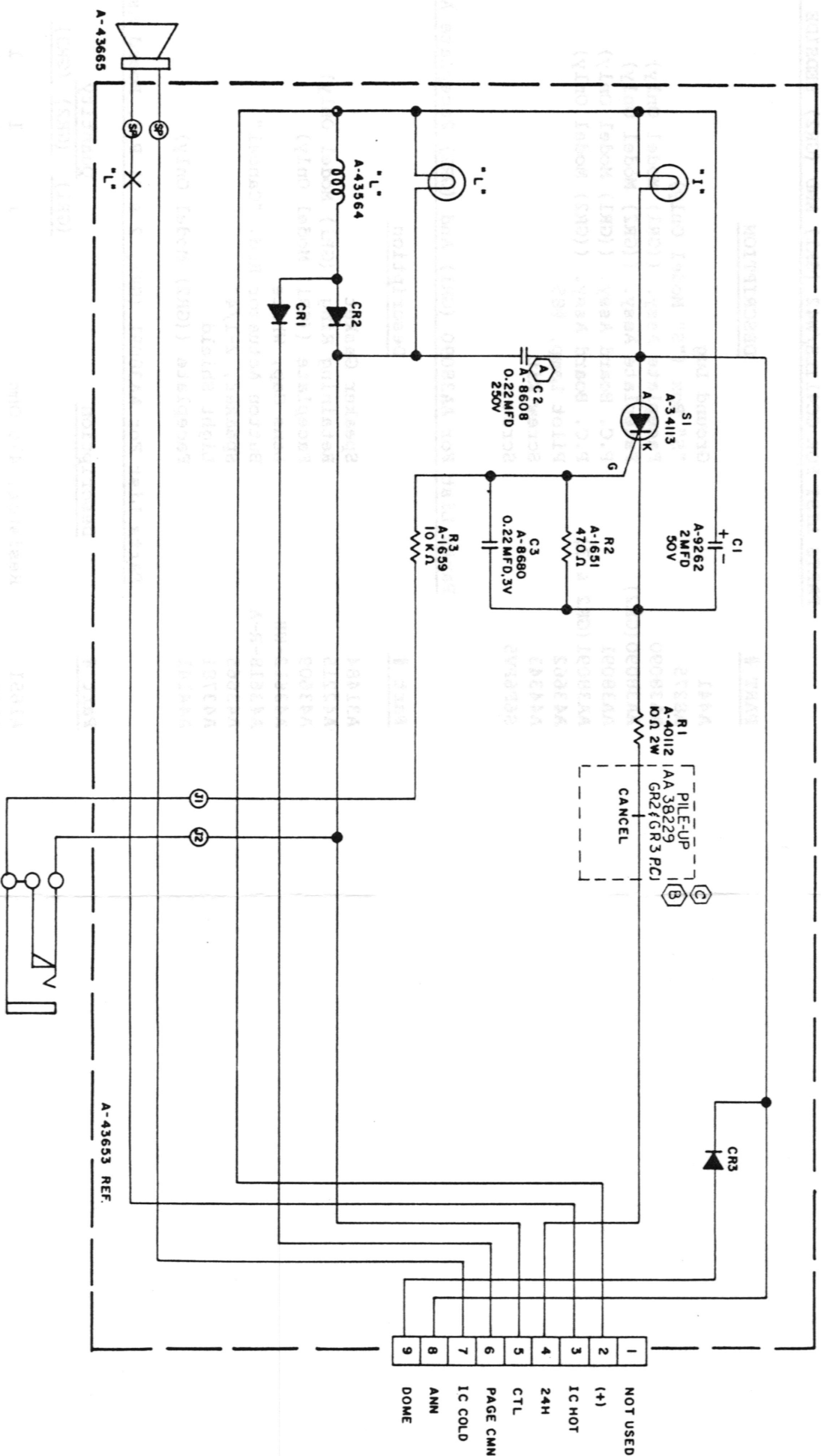
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	SLATE
9	WHITE

NOTE:  
1. ALL LEADS TO BE 6 1/2" LONG STRIPPED AND TINNED 3/8".

3-1-76 PA-23,791

- NOTES:
1. ALL DIODES ARE PART NO. A-30649.
  2. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED.
  3. \* DENOTES NORMALLY OPEN CONTACT.
  4. "L" LAMP IS UNDER "CANCEL" BUTTON.
  5. [6] DENOTES P.C. BOARD EDGE CONNECTOR NUMBER.
  6. ALL LAMPS ARE PART NO. A-43662 28V, 40MA.
  7. + DENOTES NORMALLY CLOSED CONTACT.
  8. [S] DENOTES SOLDER CONNECTION TO P.C. BOARD.
  9. GR1 P.C. BRD IS NOT INTERCHANGABLE WITH GR2 & GR3

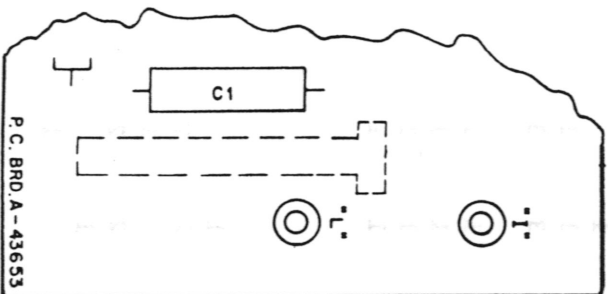
D	ADDED NOTE 9 & GR3 P.C. BOARD PER ECO 143.	4/1/77
S	ADDED PILE-UP PT. NOS. AA38229 & AA38230.	3-3
C	UPDATED P.C. BOARD LAYOUT TO GR2. PER ECO 374 (DRW 263).	7/77
RFM	B-11 ADDED GR1 & GR2 TO TITLE BLOCK.	10-25-76
JUB	B ADDED MODEL NO. TO TITLE BLOCK PER ECO 1162.	5-21-76
GS	A C2 PT NO. A-8608 250V WAS 116 PER ECO 116.	4-12-76
	RELAYS 1 & 2 PER ECO 116.	7/76
NO.	REVISION	DATE



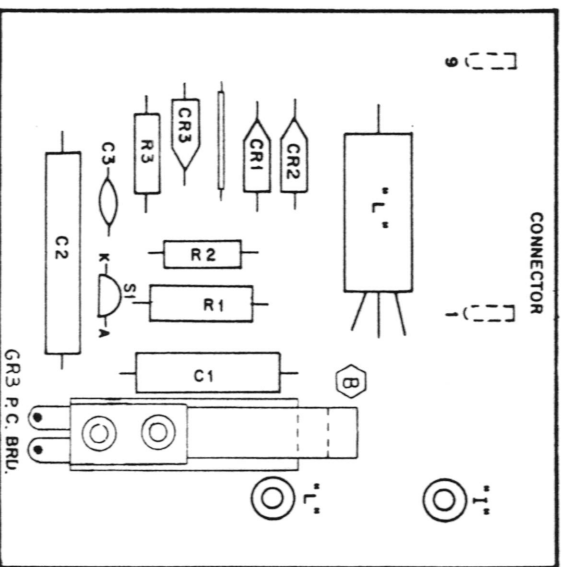
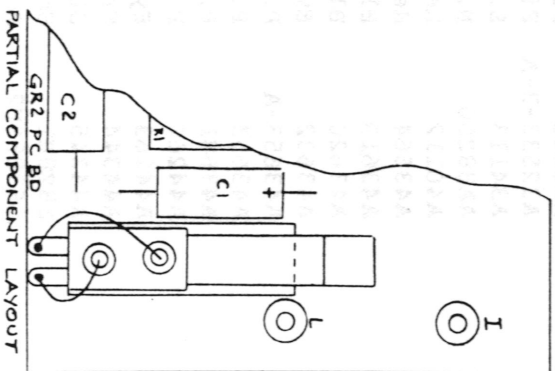
AA38091 P. C. BOARD ASSY.

AA38091 (GR2) P. C. BOARD ASSY.

AA38091 (GR3) P. C. BOARD ASSY.



DETAIL A  
GR1 P.C. BOARD  
SWITCH MOUNTED ON THIS  
SIDE FOR GR1 ONLY



NOTES:

1. ALL DIODES ARE PART NO. A-30649.
2. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED.
3. \* DENOTES NORMALLY OPEN CONTACT
4. "L" LAMP IS UNDER "CANCEL" BUTTON.
5. [6] DENOTES P.C. BOARD EDGE CONNECTOR NUMBER.
6. ALL LAMPS ARE PART NO. A-43662 28V, 40MA.
7. + DENOTES NORMALLY CLOSED CONTACT.
8. [9] & [10] DENOTES SOLDER CONNECTION TO P.C. BOARD.
9. GR1 P.C. BOARD IS NOT INTERCHANGEABLE WITH GR2 & GR3

NOTE:

1. ALL LEADS TO BE 6 1/2" LONG STRIPPED AND TINNED 3/8".

A-32305

1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	SLATE
9	WHITE

3-1-76

PA-23,791

NO.	REVISION	DATE
GS	A	10-25-76
C	ADDED NOTE 9 & GR3 PC LAYOUT PER ECO 1436	10-25-76
S	B	11-11-77
G	B	11-11-77
A	ADDED PILE-UP PT. NO. A-306229, AND UPDATED P.C. BOARD LAYOUT TO GR2. PER ECO 1372	11-11-77
A	ADDED GR1 & GR2 TO TITLE BLOCK	11-11-77
A	C2 PT. NO. A-8608 250V WAS 100V, PER ECO 1116	11-11-77
A	RELEASED PER DYN 555	11-11-77

AA38089 PLUG ASSY.  
(PROVIDED SEPARATELY)

1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	SLATE
9	WHITE

A-32305

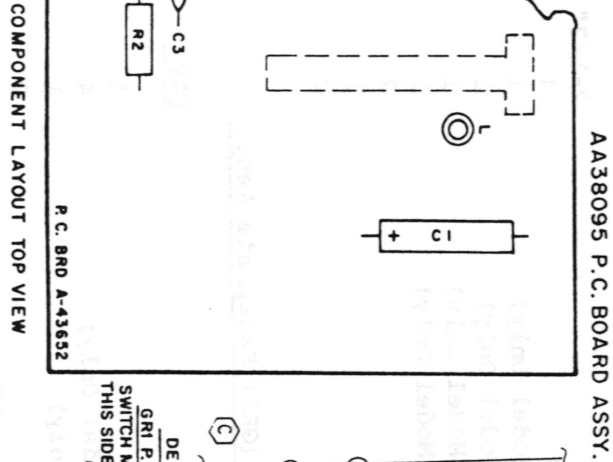
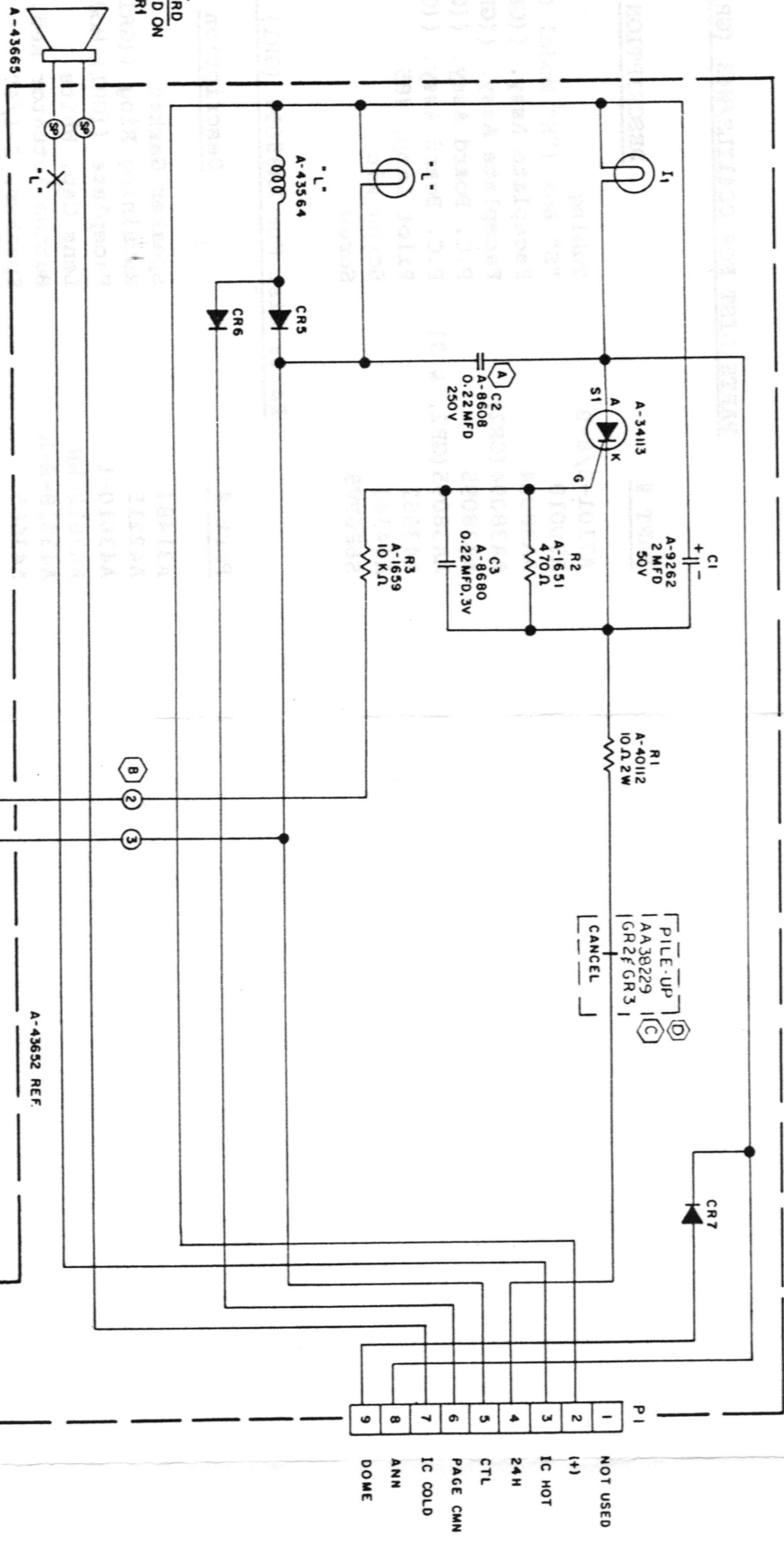
NOTE:  
1. ALL LEADS TO BE 6 1/2" LONG  
STRIPPED AND TINNED 3/8".

3-1-76

PA-23,791

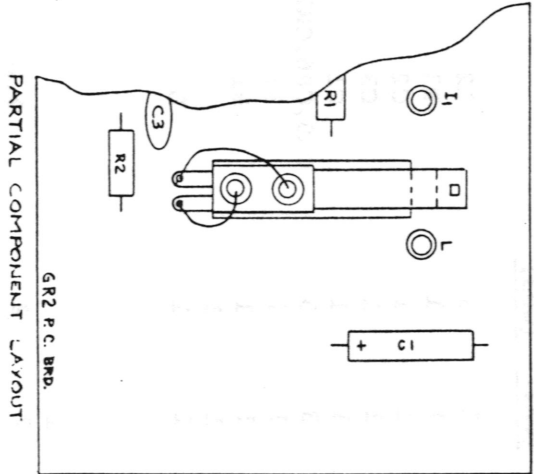
NOTES:

1. ALL DIODES ARE PART NO. A-30649.
2. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED.
3. \* DENOTES NORMALLY OPEN CONTACT.
4. "L" LAMP IS UNDER "CANCEL" BUTTON.
5. [B] DENOTES P.C. BOARD EDGE CONNECTOR NUMBER.
6. ALL LAMPS ARE PART NO. A-43662 28V, 40MA.
7. + DENOTES NORMALLY CLOSED CONTACT.
8. [B] ② [B] ③ DENOTES SOLDER CONNECTION TO P.C. BOARD
9. GR1 PC BOARD IS NOT INTER-CHANGEABLE WITH GR2/GR3

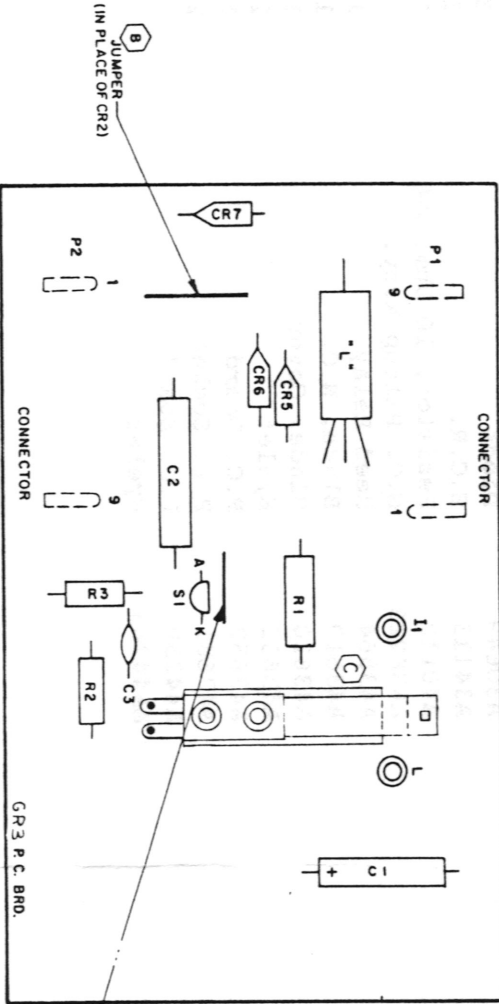


DETAIL A  
GR1 P.C. BOARD  
SWITCH MOUNTED ON  
THIS SIDE FOR GR1  
ONLY

AA38095 (GR2) P.C. BOARD ASSY.



AA38095 (GR3) P.C. BOARD ASSY.



COMPONENT LAYOUT TOP VIEW

2-10-76

PD-23,783

NO.	REVISION	DATE
1	ADDED NOTE 9 f GR3 PC LAYOUT PER ECO 1436 4/17	4/17
2	ADDED TITLE UP PT NO. 1436 4/17	4/17
3	ADDED TITLE UP PT NO. 1436 4/17	4/17
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AA 38089 PLUG ASSY.  
(PROVIDED SEPARATELY)

1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	SLATE
9	WHITE

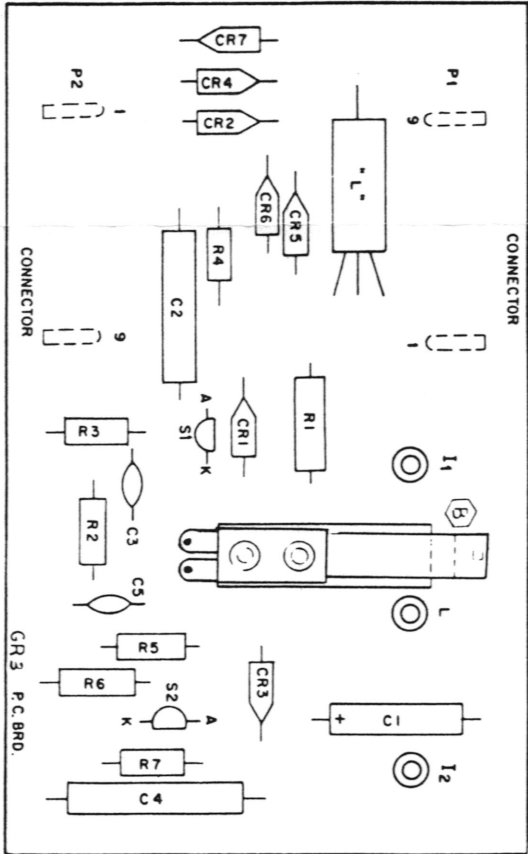
A-32305

NOTE:

1. ALL LEADS TO BE 6 1/2" LONG  
STRIPPED AND TINNED 3/64"

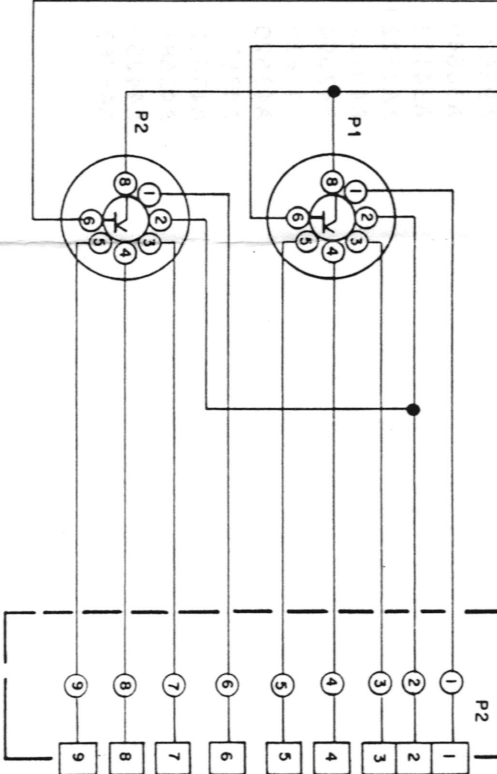
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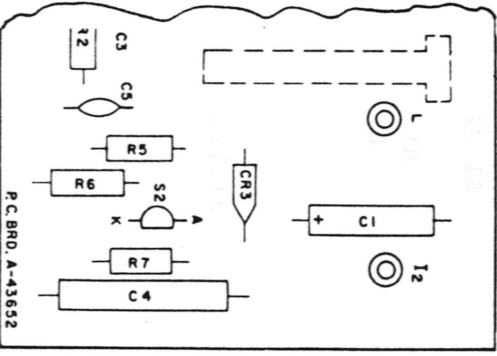
COMPONENT LAYOUT TOP VIEW

A-43662 REF.

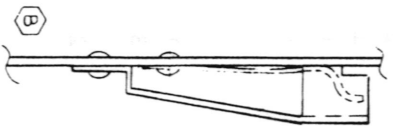


AA38093 (GR2) P.C. BOARD ASSY.

AA38093 P.C. BOARD ASSY.



COMPONENT LAYOUT TOP VIEW

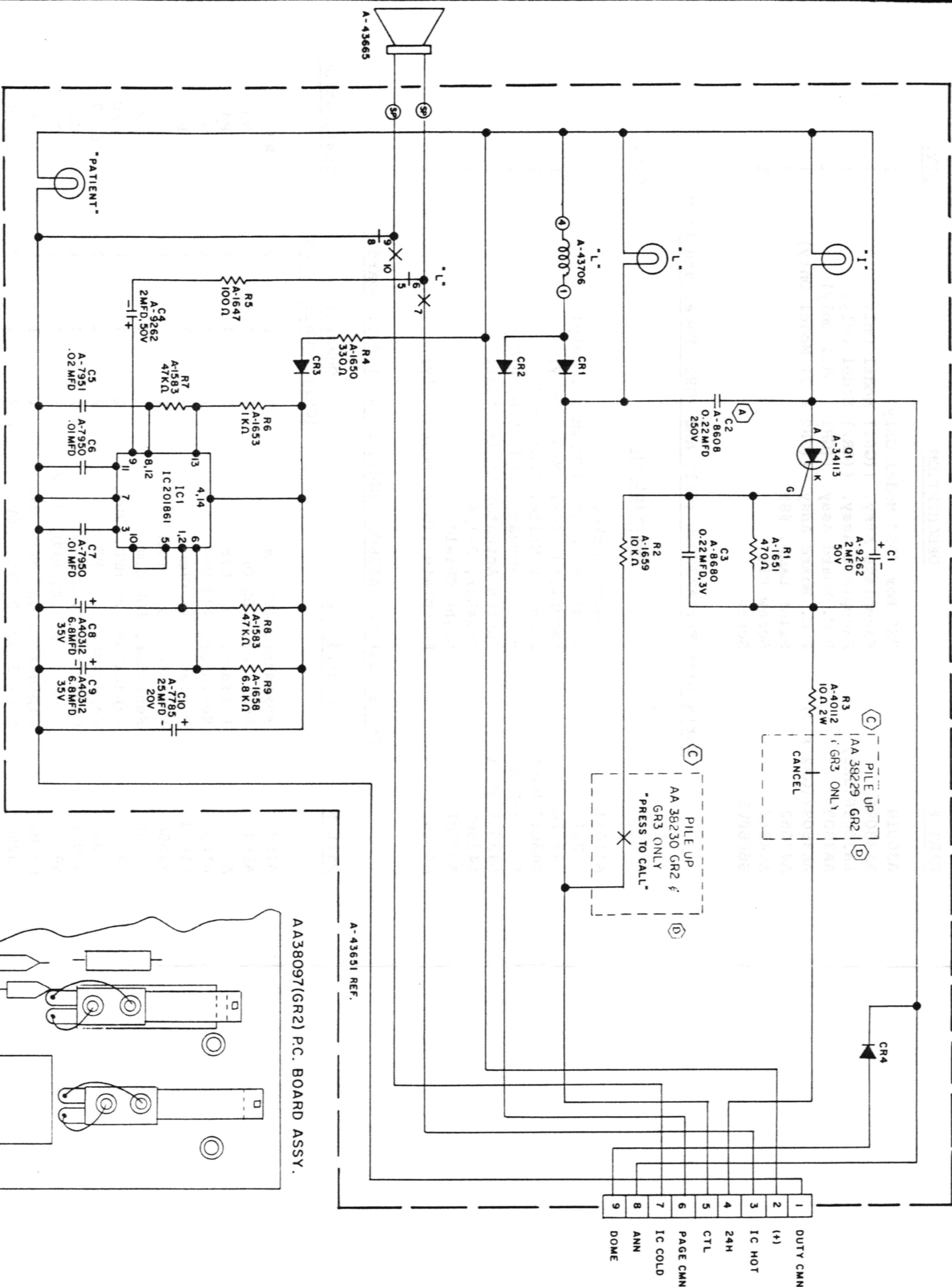


DETAIL A  
GR1 P.C. BRD.  
SWITCH MOUNTED ON THIS  
SIDE FOR GR1 ONLY

P.C. BRD. A-43662

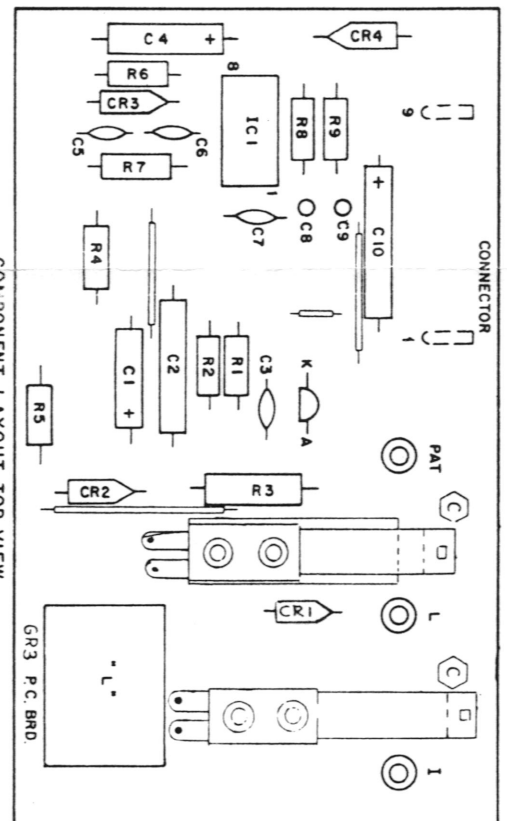
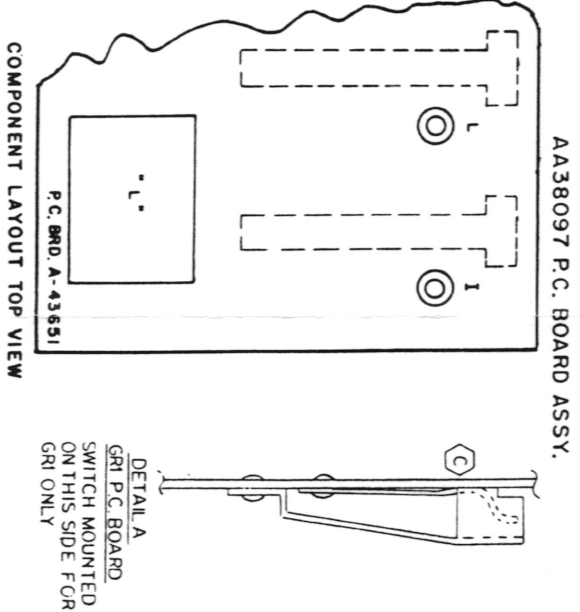
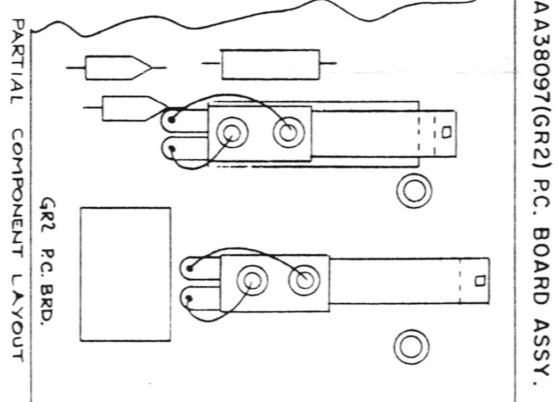
NO.	REVISION	DATE
1	ADDED NOTE 9/7 GR3 P.C. BOARD TO TITLE BLOCK.	10-25-76
2	ADDED PILE UP PT NO. AA38089, AND UPDATED P.C. BOARD LAYOUT TO GR3 P.C. BOARD.	11-17-76
3	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
4	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
5	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
6	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
7	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
8	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
9	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
10	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
11	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
12	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
13	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
14	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
15	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
16	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
17	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
18	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
19	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76
20	ADDED GR1 & GR2 TO TITLE BLOCK.	12-12-76





NOTES:

1. ALL DIODES ARE PART NO. A-30649.
2. ALL LAMPS ARE PART NO. A-43662 28V. 40MA.
3. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED.
4. "L" LAMP IS UNDER "CANCEL" BUTTON.
5. [ ] DENOTES P.C. BOARD EDGE CONNECTOR NO.
6. + DENOTES NORMALLY CLOSED CONTACT.
7. \* DENOTES NORMALLY OPEN CONTACT.
8. [ ] DENOTES SOLDER CONNECTION TO P.C. BOARD.
9. GR1 PCB, BROS. NOT INTERCHANGABLE WITH GR2/GR3



AA 38089 PLUG ASSY. (PROVIDED SEPARATELY)

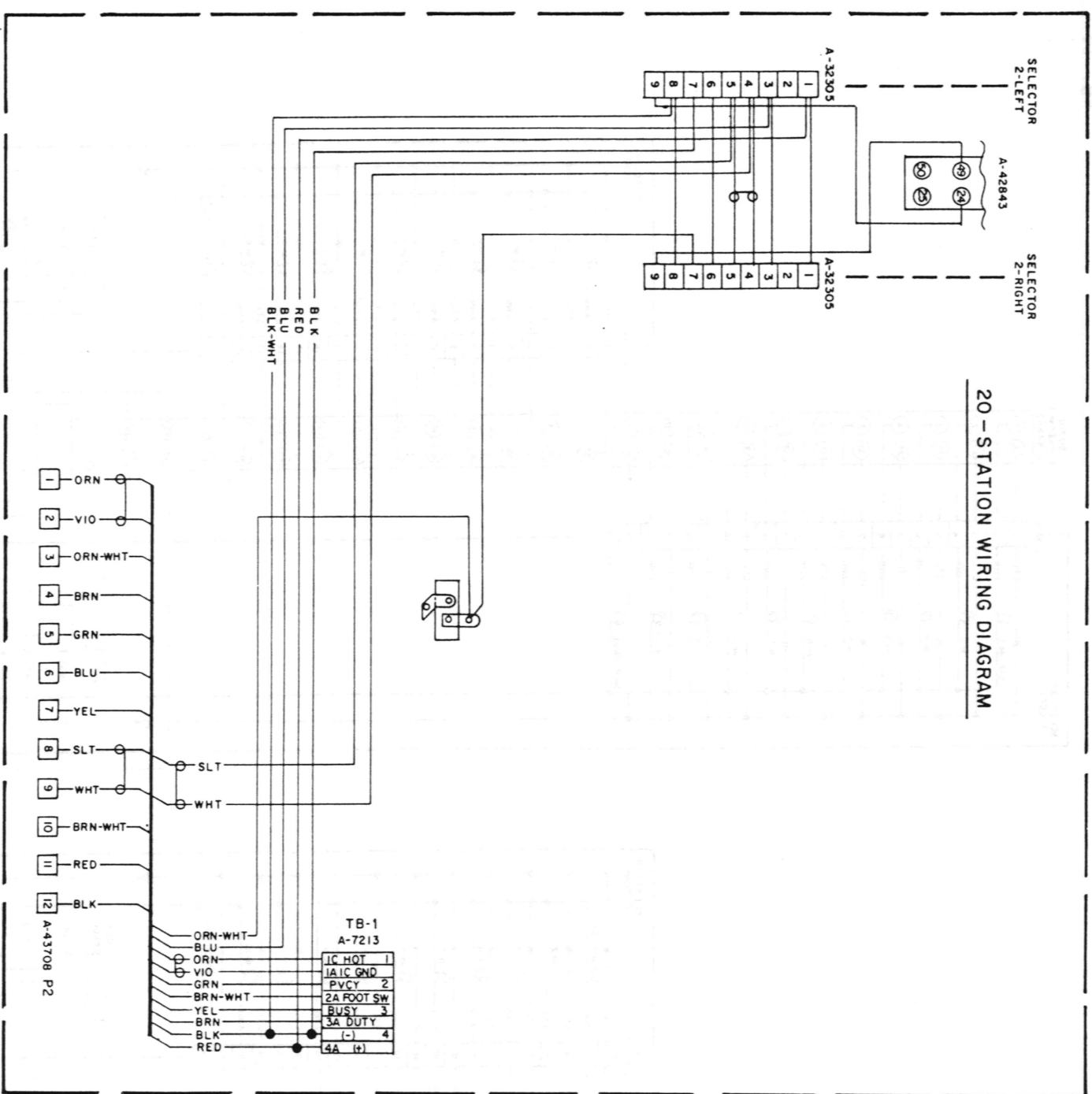
1	BROWN
2	RED
3	ORANGE
4	YELLOW
5	GREEN
6	BLUE
7	VIOLET
8	SLATE
9	WHITE

NOTE:  
1. ALL LEADS TO BE 6 1/2" LONG STRIPPED AND TINED #8.

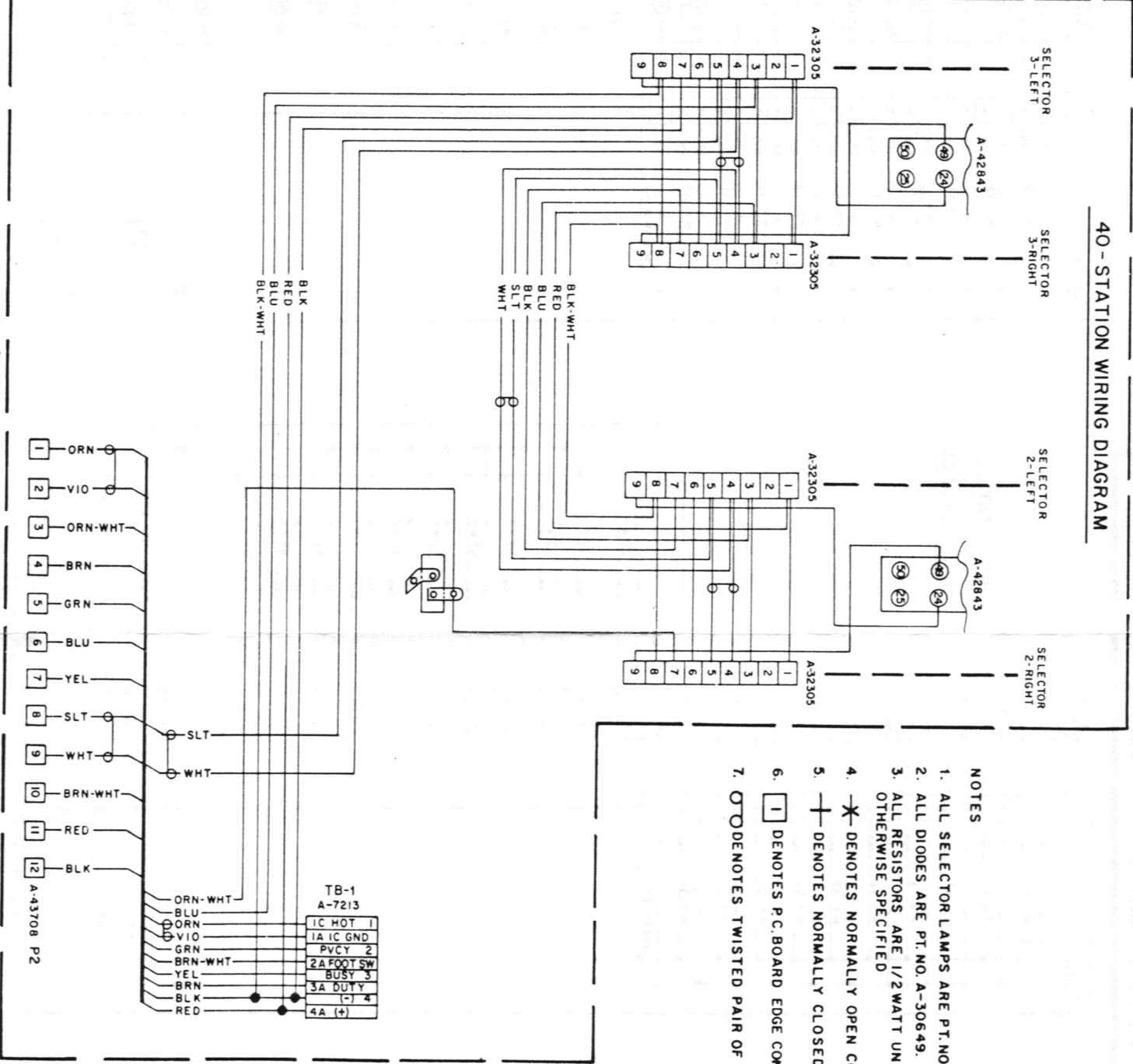
3-1-76 PA-23,791

NO.	REVISION	DATE
D	ADDED NOTE 9 f GR3 P.C. LAYOUT PER ECO 1436	4/1/77
G	ADDED PILE-UP P.C. NO'S. AA38229 & AA38230	4/1/77
S	UPDATED P.C. BOARD LAYOUT TO GR2 PER ECO 1376	7/1/77
RFM	B-1 ADDED GR1A GR2 TO TITLE BLOCK	10-25-76
JB	B ADDED MODEL NO. TO TITLE BLOCK PER ECO 1163	3-21-76
GS	A C2 PT NO. A-8608 250V WAS 100V PER ECO 1116	4-12-76
	RELEASED PER ECO 1116	3-1-76

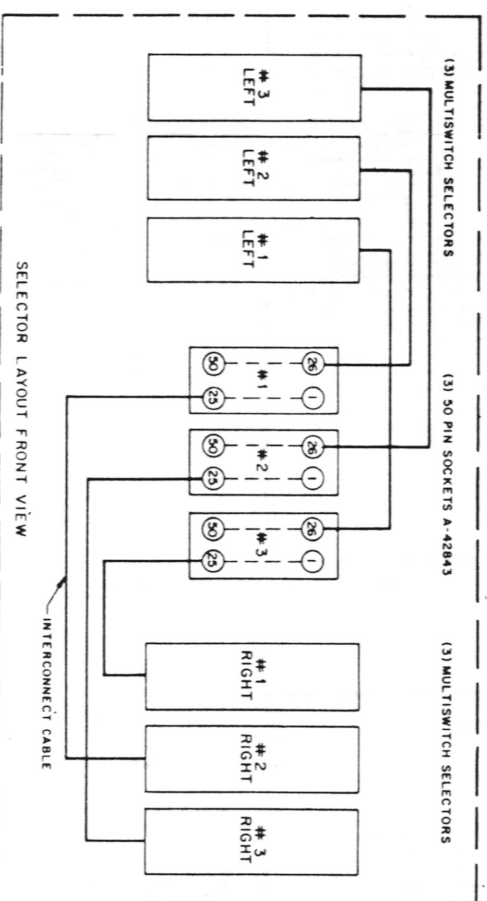
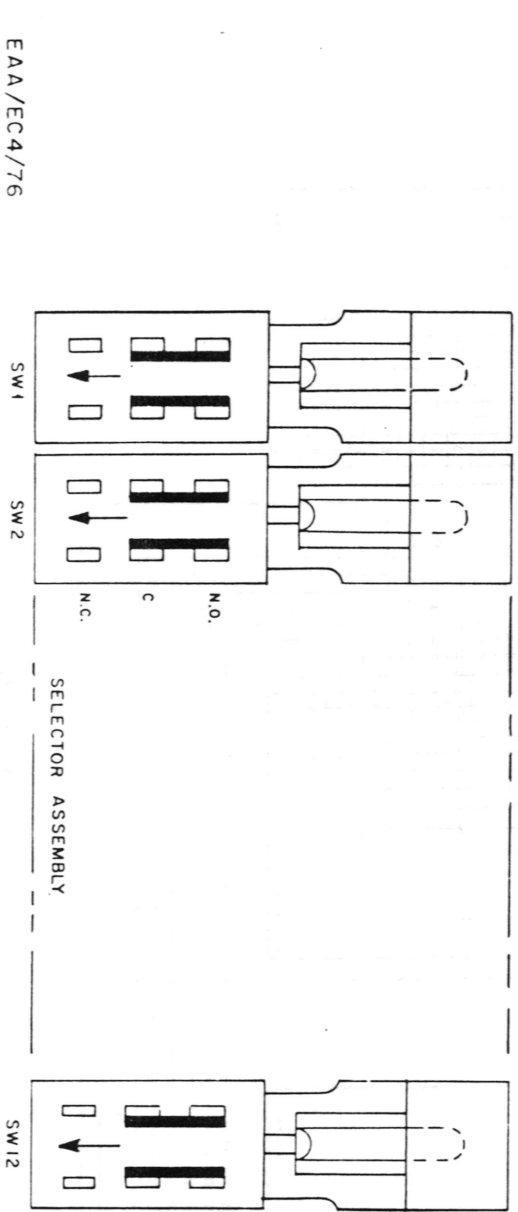
20-STATION WIRING DIAGRAM



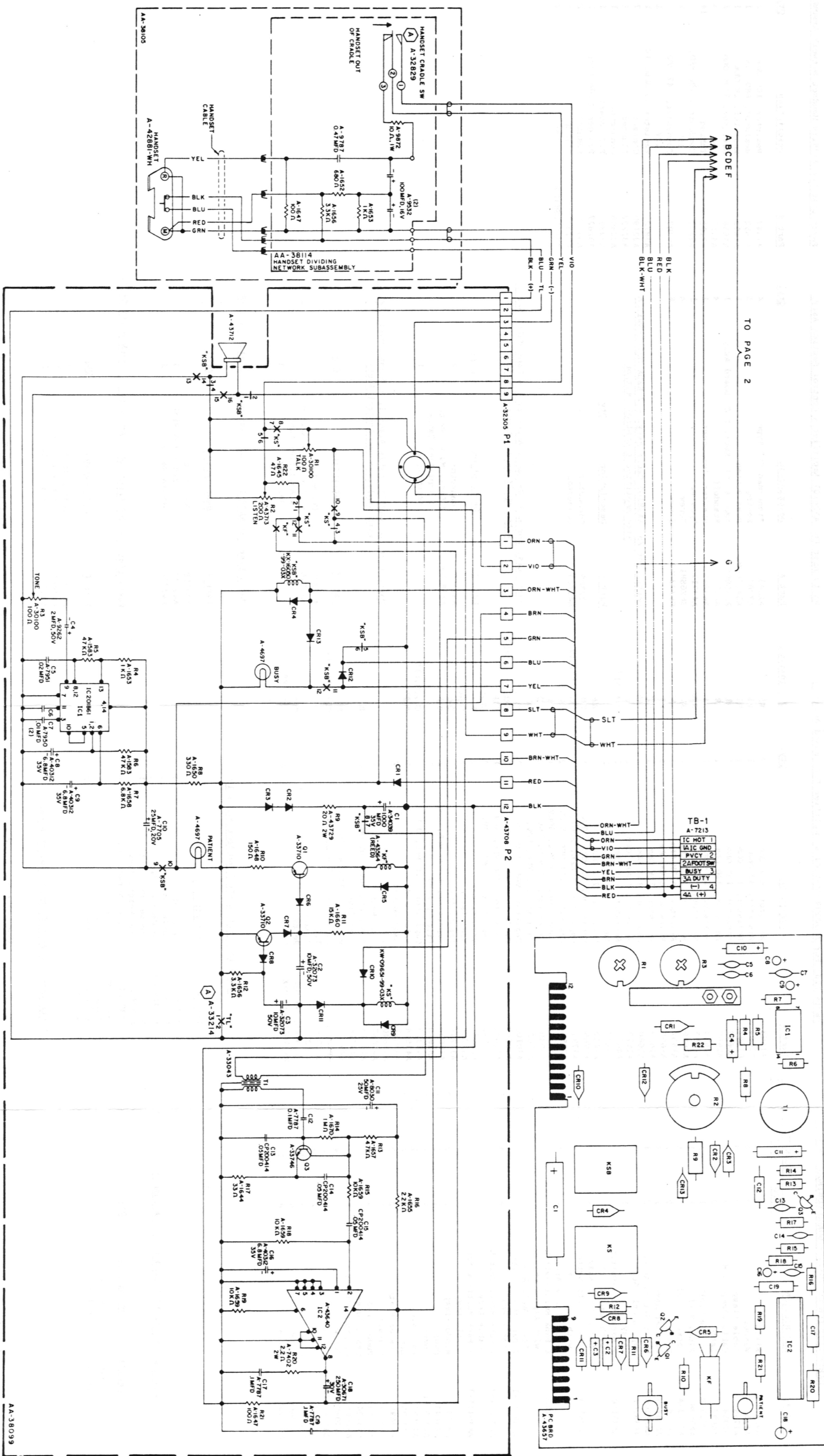
40-STATION WIRING DIAGRAM

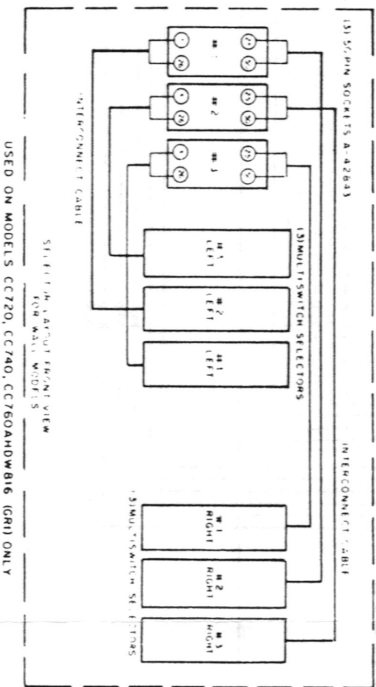
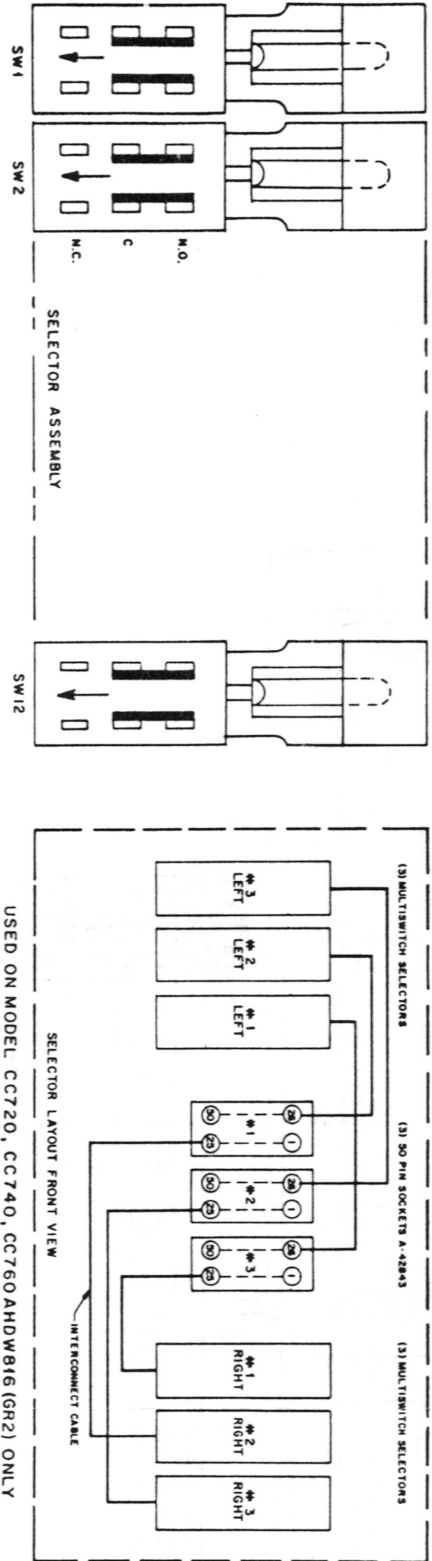
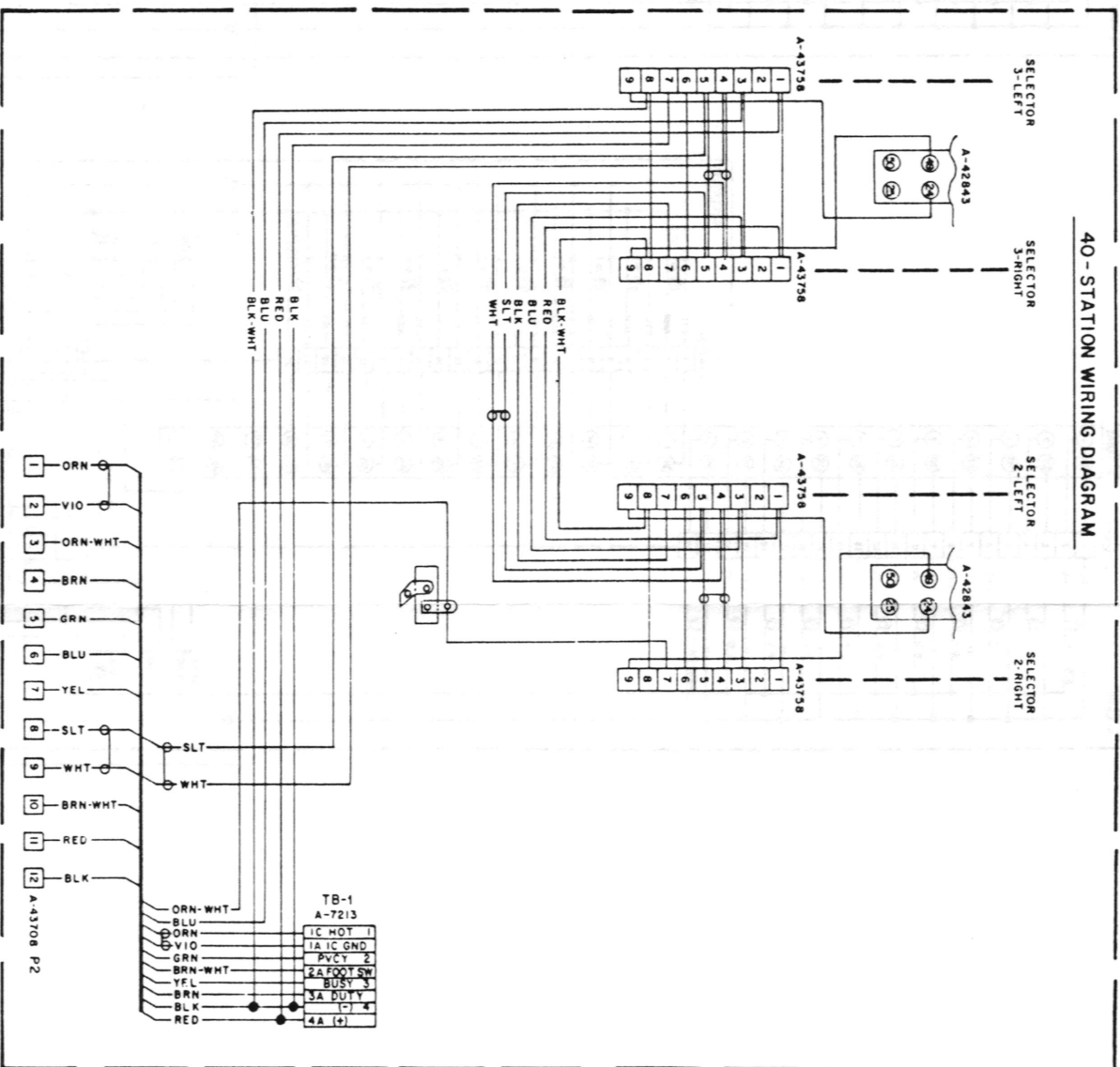
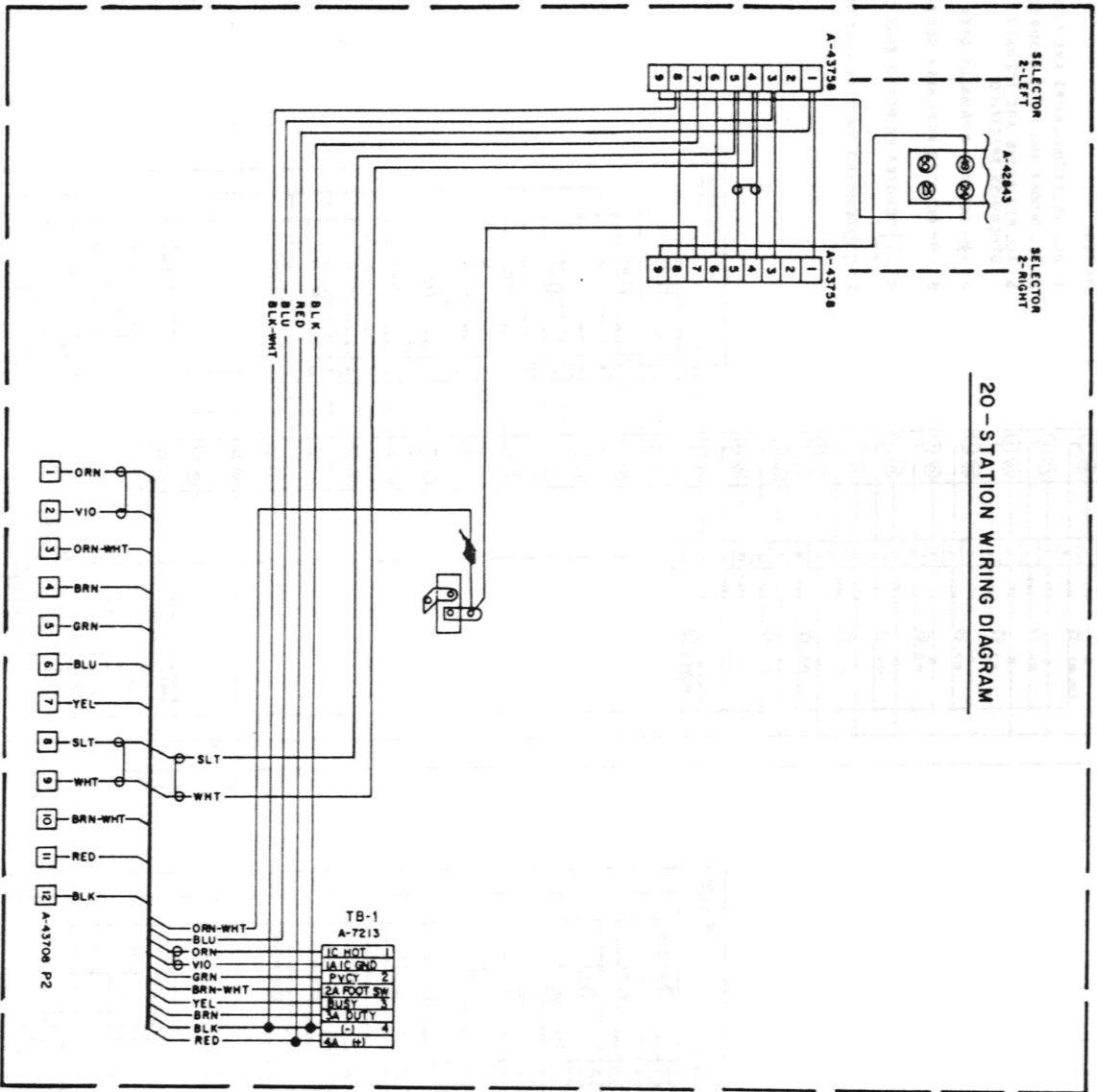


- NOTES
1. ALL SELECTOR LAMPS ARE PT. NO. A-33910 40MA, 28V
  2. ALL DIODES ARE PT. NO. A-30649.
  3. ALL RESISTORS ARE 1/2WATT UNLESS OTHERWISE SPECIFIED
  4. \* DENOTES NORMALLY OPEN CONTACT
  5. + DENOTES NORMALLY CLOSED CONTACT
  6. [ ] DENOTES P.C. BOARD EDGE CONNECTOR NUMBER
  7. O DENOTES TWISTED PAIR OF WIRES



A	PT. NO. A-32829 WAS A-33214, ADDED	4 / 6 /
NO.	PT. NO. A-33214 PER ECO 1113	76
	REVISION	DATE

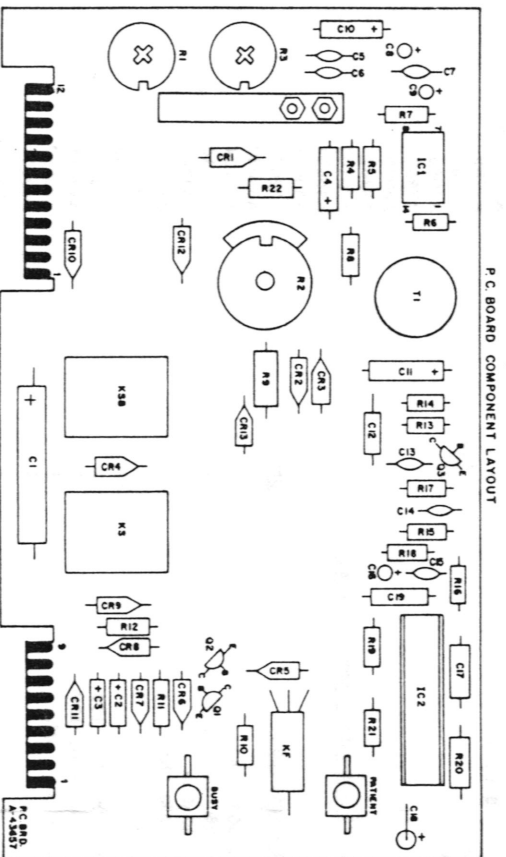
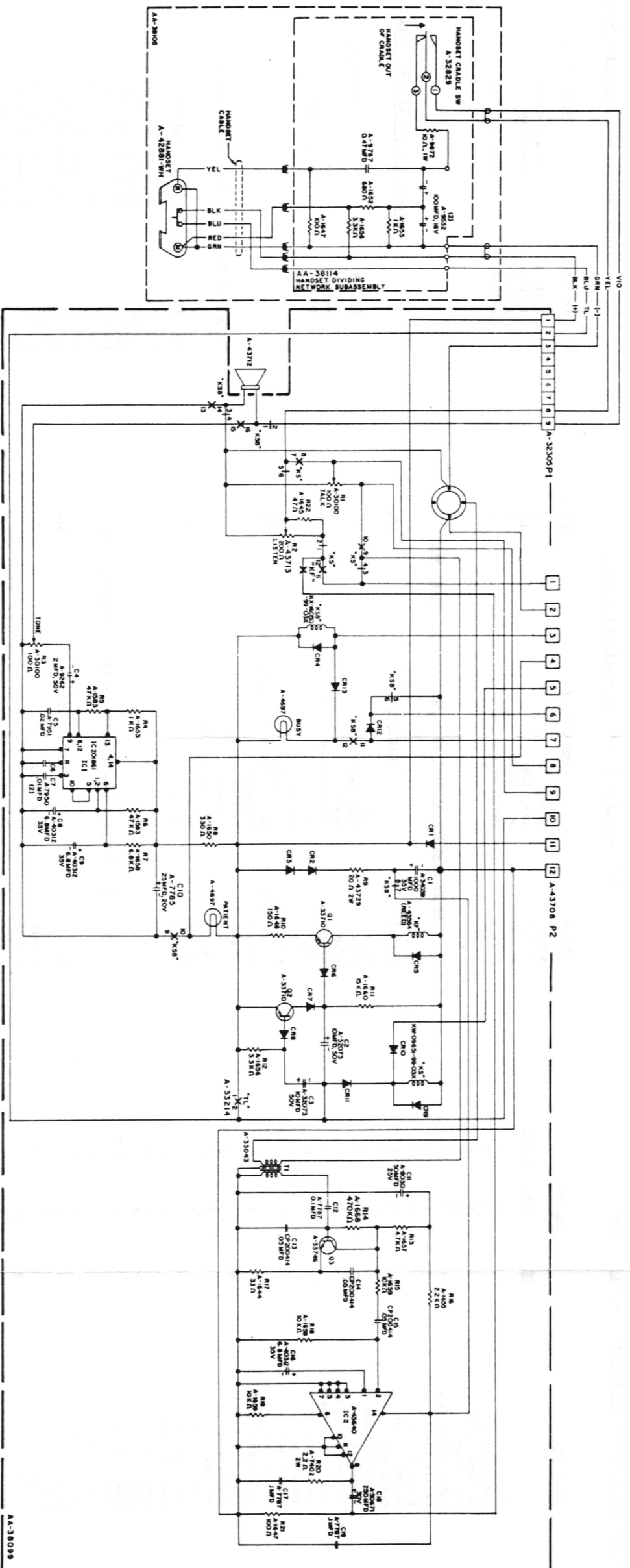




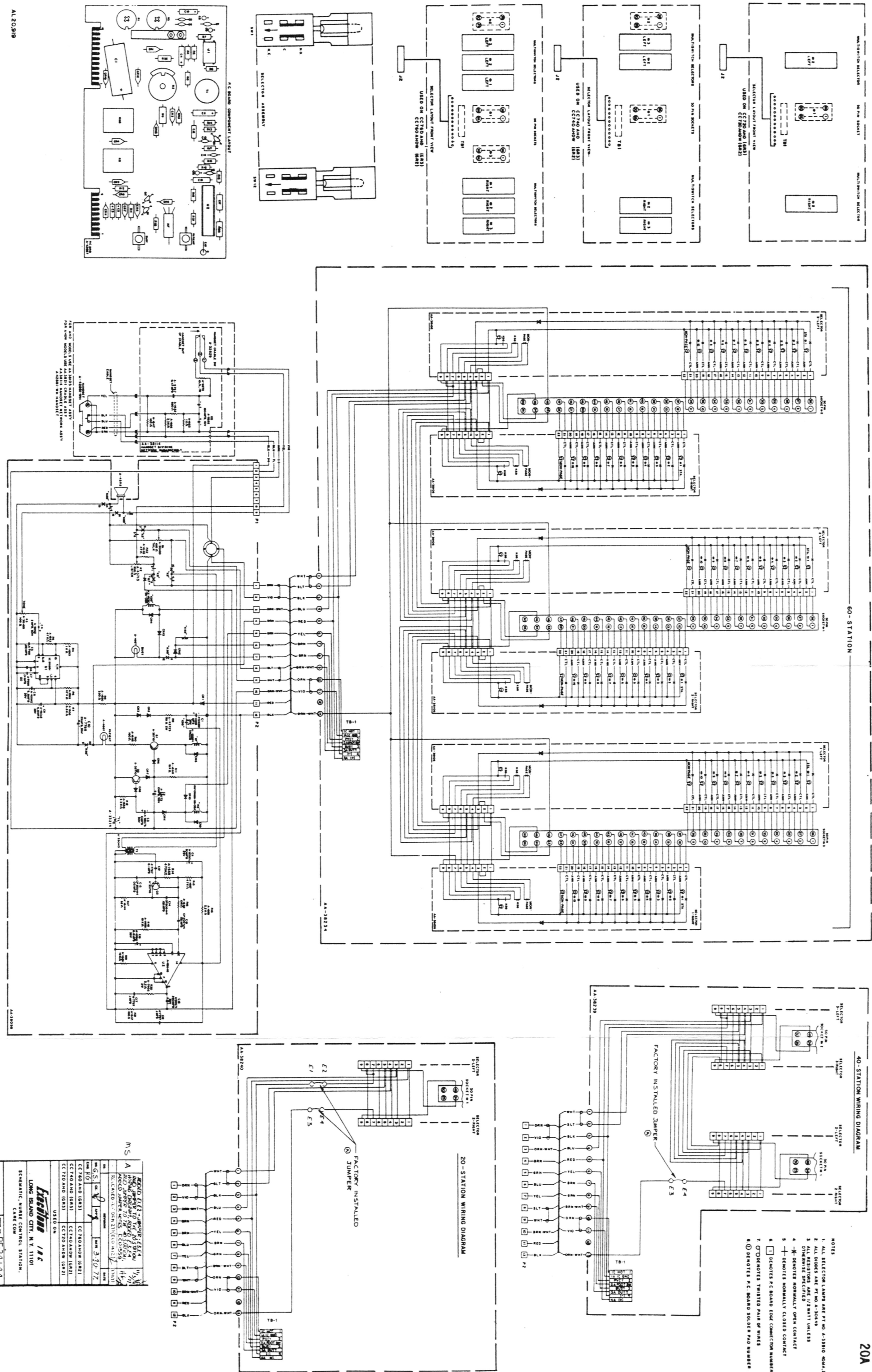
- NOTES
1. ALL SELECTOR LAMPS ARE PT. NO. A-33910 40MA, 28V
  2. ALL DIODES ARE PT. NO. A-30649.
  3. ALL RESISTORS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED
  4. \* DENOTES NORMALLY OPEN CONTACT
  5. + DENOTES NORMALLY CLOSED CONTACT
  6. [ ] DENOTES P.C. BOARD EDGE CONNECTOR NUMBER
  7. O DENOTES TWISTED PAIR OF WIRES

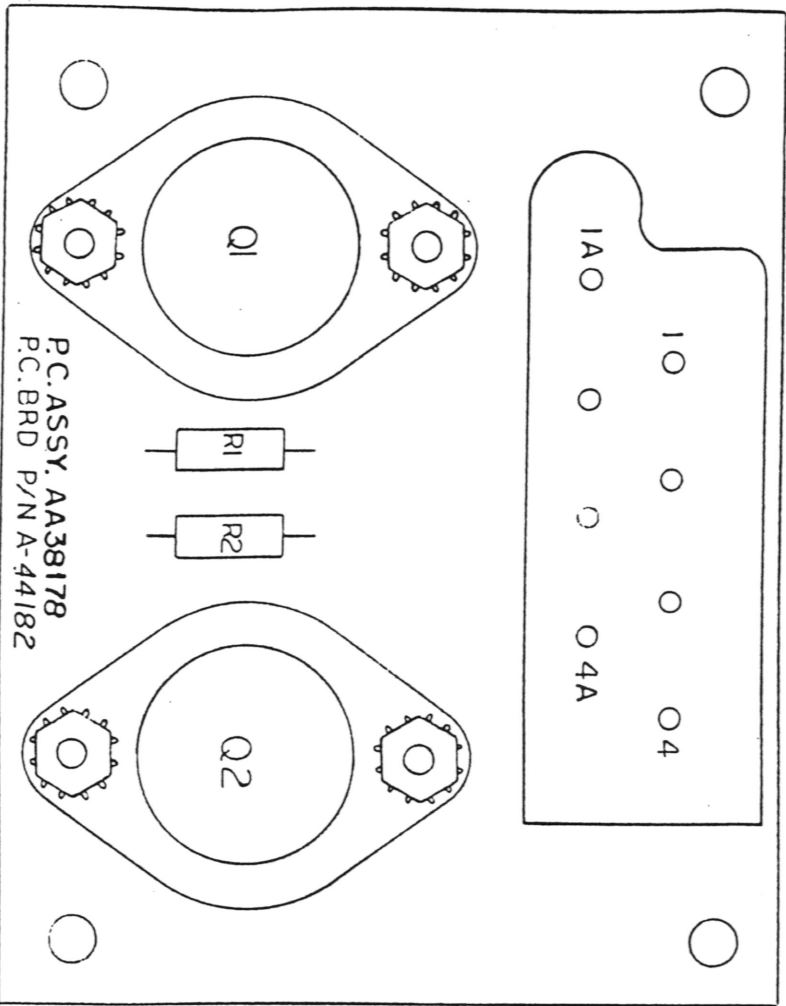
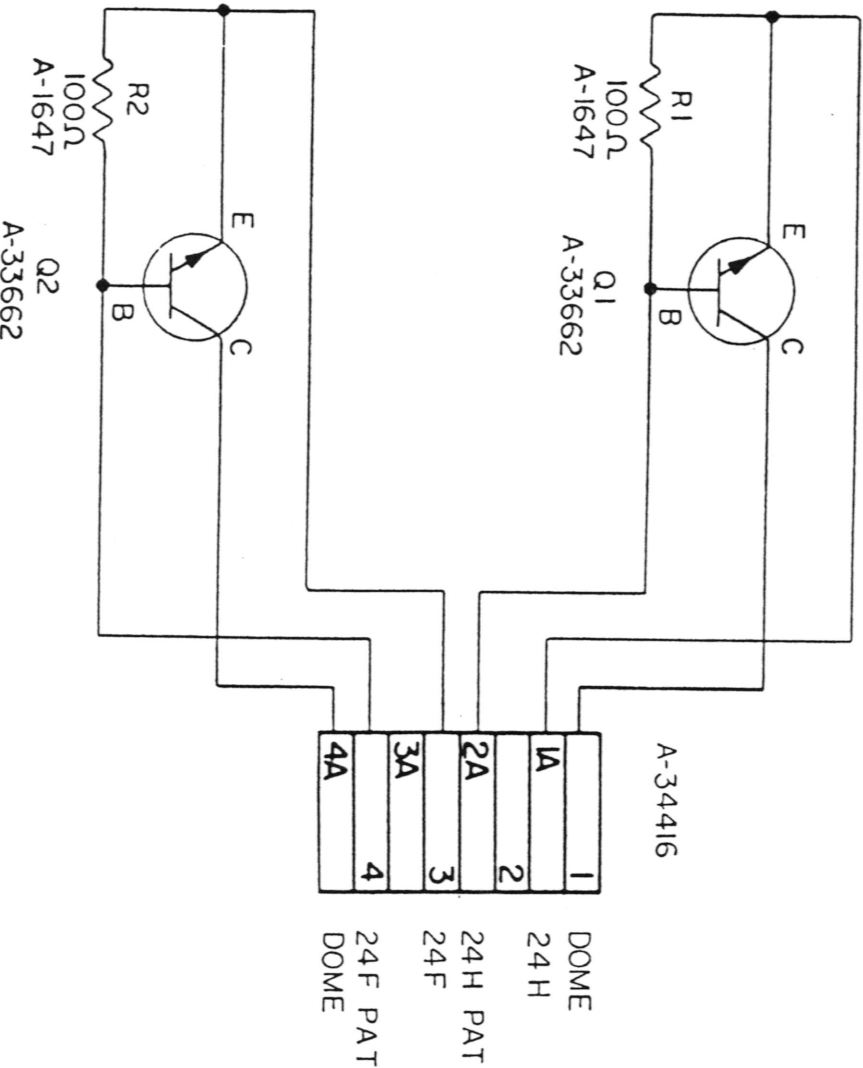
NO.	REVISION	DATE
A	ADDED SELECTOR LAYOUT FRONT VIEW FOR WALL MODELS, PER ECO 1359	1-24 77





- NOTES
1. ALL SELECTOR LAMPS ARE P.T. NO. A-33810 40MA, 28V
  2. ALL DIODES ARE P.T. NO. A-30649.
  3. ALL RESISTORS ARE 1/2WATT UNLESS OTHERWISE SPECIFIED
  4. \* DENOTES NORMALLY OPEN CONTACT
  5. + DENOTES NORMALLY CLOSED CONTACT
  6. 1 DENOTES P.C. BOARD EDGE CONNECTOR NUMBER
7. 0 DENOTES TWISTED PAIR OF WIRES





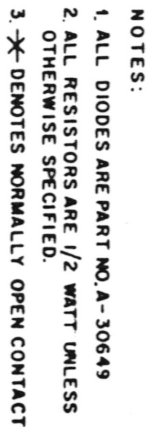
COMPONENT LAYOUT

PARTS LIST FOR CCJ126S42 CARE/COM ZONE CONTROL

PART #	DESCRIPTION	QTY.
AA5698	Plug, 8 Pin	1
AA5763	Face Plate Assy.	1
A7204	Keys Nut, 6-32	4
A7530-14	Spacer, 7/8"	4
A8275	"S" Box	1
A32973-8	Bushing, Nylon	1
AA38178	P.C. Board Assy.	1
S6Z8P020	Screw	4

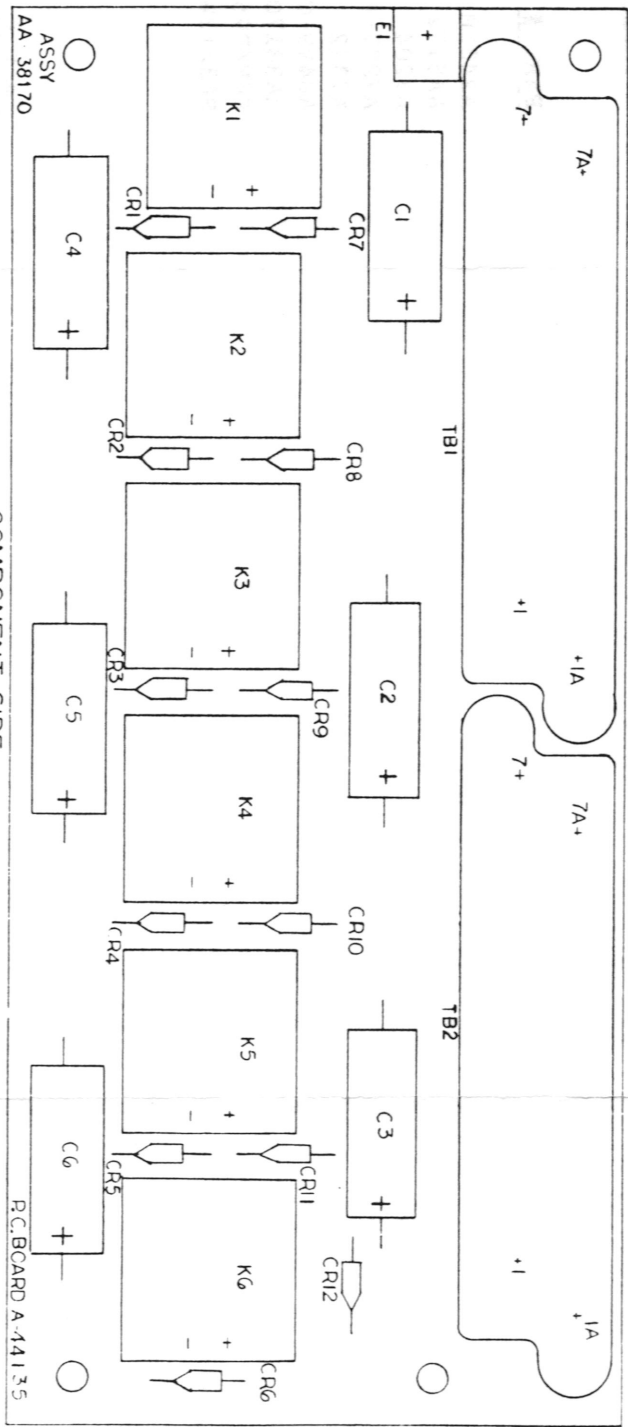
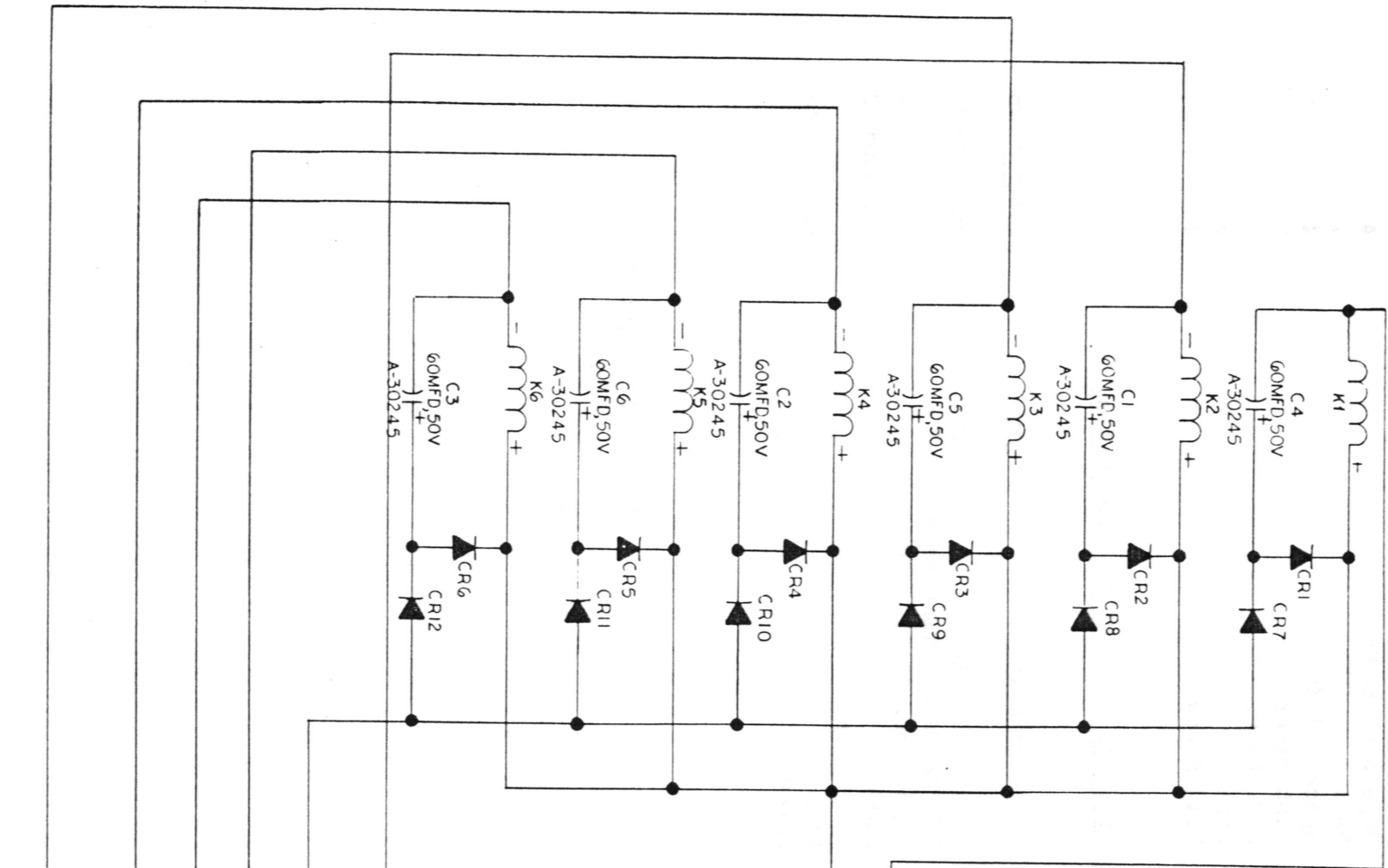
Parts List For AA38178 P.C. Board Assy.

Part #	Description	QTY.	Designation
A1647	Resistor, 100 Ohm	2	R1,R2
A7204	Keys Nut, 6-32	4	
A7342	Spacer, 1/4"	4	
A33662	Transistor	2	Q1,Q2
A34416	Socket, 8 Pin	1	
A44182	P.C. Board	1	
S63210 SH1	Screw	4	



GS	ON TB-1 CONNECTED TERMINAL	
A	1 TO 1A PER ECO 1107	
NO	REVISION	

EAA / RQ 11 / 76



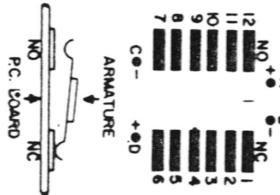
COMPONENT SIDE

E1 CTL. #1

NOTES:

- 1. UNLESS OTHERWISE SPECIFIED:  
ALL DIODES ARE A-30649.
- 2. K1 THRU K6 ARE KW-09651-99-03X
- 3. DENOTES TINNED CLIP (A-9917) CONNECTION.
- 4. COIL VOLTAGE = 24 V NOM.
- 5. \* DENOTES NORMALLY OPEN CONTACT

RELAY  
KW-09651-99-03X



TB1  
A-7945  
(SOCKET)

TB2  
A-7945  
(SOCKET)

10/20/76

PD-23,976